621.31
M26mpc
1977
Montana Power Company
The Montana Power Company long range plan

STATE PUBLICATIONS
AUG 21 '08
MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

THE MONTANA POWER COMPANY
1977 LONG RANGE PLAN

PLEASE RETURN

Montana State Library
3 0864 1006 6140 7

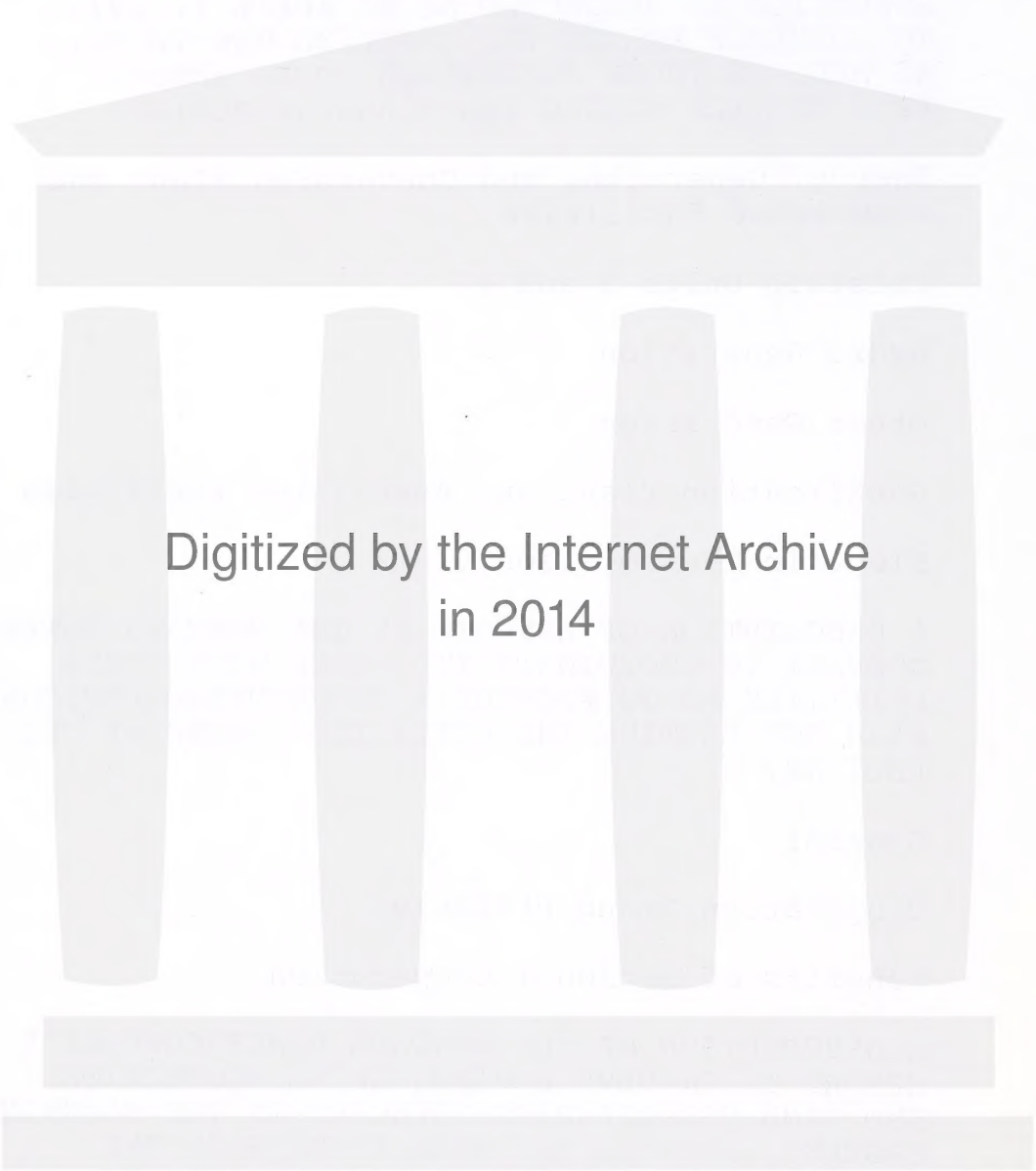
Doc.3:m25/977
AUG 11 1988
F613
MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

THE MONTANA POWER COMPANY

1977 LONG RANGE PLAN

TABLE OF CONTENTS

		Page No.
I-1	INTRODUCTION	1
II.	THE GENERAL LOCATION, SIZE AND TYPE OF THE UTILITY FACILITY TO BE OWNED AND OPERATED BY THE MONTANA POWER COMPANY, WHOSE CONSTRUCTION IS PROJECTED AS OF APRIL 1, 1977, TO COMMENCE DURING THE ENSURING TEN YEARS, AS WELL AS THOSE FACILITIES TO BE REMOVED FROM SERVICE DURING THE PLANNING PERIOD.	2
II-1.	Energy, Generating and Conversion Plant and Associated Facilities	2
II-1.1	Colstrip Units 3 and 4	2
II-1.2	Hydro Generation	3
II-1.3	Other Generation	4
II-1.4	Gasification Plant and Associated Facilities	5
II-2.	Electric Transmission Lines	5
III.	A DESCRIPTION OF EFFORTS BY THE MONTANA POWER COMPANY TO COORDINATE ITS PLANS WITH OTHER UTILITIES AS TO PROVIDE A COORDINATED REGIONAL PLAN FOR MEETING THE UTILITIES' NEEDS OF THE REGIONS.	7
III-1.	General	7
III-2.	Cooperation Among Utilities	8
III-2.1	Benefits of Regional Cooperation	10
IV.	A DESCRIPTION OF THE MONTANA POWER COMPANY'S EFFORT TO INVOLVE ENVIRONMENTAL PROTECTION AND LAND USE PLANNING AGENCIES IN THE PLANNING PROCESS, AS WELL AS OTHER EFFORTS OF THE MONTANA POWER COMPANY TO IDENTIFY AND TO MINIMIZE ENVIRONMENTAL PROBLEMS AT THE EARLIEST POSSIBLE STAGE IN THE PLANNING PROCESS.	13
IV-1.	General Policy	13


Digitized by the Internet Archive
in 2014

https://archive.org/details/montanapowercomp1977mont

IV-2.	Participation in Land Use and Environmental Planning	13
V.	PROJECTIONS OF THE DEMAND FOR SERVICES RENDERED BY THE MONTANA POWER COMPANY AND EXPLANATION OF THE BASIS FOR SUCH PROJECTIONS, AND A DESCRIPTION OF THE MANNER AND EXTENT TO WHICH THE PROPOSED FACILITIES WILL MEET THE PROJECTED DEMAND.	14
V-1.	General	14
V-1.2.	System Load and Resource Forecast for The Montana Power Company Total System	15
V-1.3	Substation Load Analysis	17
V-1.4	Meeting System Loads	19

THE MONTANA POWER COMPANY

ANNUAL LONG RANGE PLAN

Filed as of April 1, 1977

Pursuant to the Montana Major Facilities Siting Act

I-1. INTRODUCTION

Pursuant to Section 70-814 of the Montana Major Facilities Siting Act, hereinafter referred to as the "Act", and Section 36-2.8(6)-S870 of the regulations issued thereunder, hereinafter referred to as "Regulations", The Montana Power Company hereby submits as of April 1, 1977, its annual long range plan to the Montana Department of Natural Resources and Conservation and requisite state agencies. Certain voluminous exhibits which are part of this long range plan are not included in each copy of the plan, but are on file with the Montana Department of Natural Resources and Conservation for inspection.

It should be noted that the information in this long range plan represents the best efforts of The Montana Power Company to set forth its plans and projections based on present knowledge, data and circumstances. Because present circumstances may unpredictably change, the plans and projections set forth herein may also necessarily change.

II. THE GENERAL LOCATION, SIZE AND TYPE OF THE UTILITY FACILITY TO BE OWNED AND OPERATED BY THE MONTANA POWER COMPANY, WHOSE CONSTRUCTION IS PROJECTED AS OF APRIL 1, 1977, TO COMMENCE DURING THE ENSUING TEN YEARS, AS WELL AS THOSE FACILITIES TO BE REMOVED FROM SERVICE DURING THE PLANNING PERIOD.[1]

II.1 Energy, Generating and Conversion Plant and Associated Facilities

Energy, generating and conversion plants to be owned and operated by The Montana Power Company whose construction is projected to commence during the ensuing ten (10) years, including an estimate of applicable filing and construction dates, are shown on the attached chart entitled "Generation Alternatives" marked Exhibit "A", and are explained below.

II-1.1 Colstrip Units 3 and 4

Application for a 1400 megawatt coal-fired steam generation plant (Colstrip Units 3 and 4) to be built at Colstrip, Montana, was filed by The Montana Power Company along with Puget Sound Power & Light Company, Portland General Electric Company, The Washington Water Power Company and Pacific Power & Light Company ("Applicants") on June 6, 1973. The Applicants requested construction of Colstrip Units 3 and 4 be allowed to commence on or before May 1, 1974. The Applicants originally scheduled commercial operation of Colstrip Unit 3 to commence in July 1978 and Unit 4 to commence in July, 1979. The Applicants' schedule for

---

1. Montana Major Facilities Siting Act, 70-814 (1)(a); Montana Administrative Code §36-2.8(6)-S870(1)(a)(b)(c)(2)

Colstrip Units 3 and 4 has and is being delayed as a result of government administrative proceedings and litigation. The Applicants cannot determine when and how the administrative proceedings and litigation will be resolved, and therefore cannot predict precisely the commercial operation date of Colstrip Units 3 and 4. However, Colstrip Unit 3 commercial operation is now scheduled for August, 1981, and Colstrip Unit 4 commercial operation is now scheduled for June, 1982.

II-1.2 Hydro Generation

The Montana Power Company ("Company") and the Confederated Kootenai and Salish Tribes ("Tribes") filed application with the Federal Power Commission for the construction of two hydroelectric projects referred to as "Buffalo Rapids No. 2" and "Buffalo Rapids No. 4", to be located on the Flathead River in Sanders and Lake Counties, Montana. By Order issued December 15, 1975, the Federal Power Commission dismissed the application because no agreement was reached between the Company and the Tribes. If and when "Buffalo Rapids No. 2" and "Buffalo Rapids No. 4" are built depends on whether the Company can reach an agreement with the Tribes, then refile for and receive a license from the Federal Power Commission for the proposed units.

If The Montana Power Company can reach agreement with the Confederated Kootenai and Salish Tribes, The Montana Power Company is considering and studying the possibilities of installing a fourth 60-80 megawatt unit at Kerr and/or modifying the present Kerr units to increase present capacity by about 25-35%. Implementation of either of these possibilities would require receipt of an amended license from the Federal Power Commission. In any event, construction on either of these projects probably would not commence prior to 1980.

II-1.3 Other Generation

Assuming that Colstrip Units 3 and 4 are constructed as discussed above, The Montana Power Company system would become deficient starting in 1987-88 for peak and energy as described in Part V below. To cover these deficiencies projected for the late 1980's, different possibilities or a combination thereof exist. However, not all of such possibilities would be developed within this time frame. Construction of Buffalo Rapids No. 2 and No. 4 and/or adding a fourth unit at Kerr, and/or increasing capacity at Kerr are possibilities as discussed in Paragraph II-1.2 above. Participation by The Montana Power Company in generation plants outside Montana, or construction of additional thermal generation somewhere in Montana, are other possibilities.

The location of such a plant depends on numerous considerations, including availability of water, proximity to a railroad or coal mine, adequate space for a plant and associated facilities, adequate terrain and air quality considerations. Possible sites that may meet these considerations include the Colstrip area, an area near the mouth of the Big Horn River, an area near Whitehall, Montana, an area near Cascade, Montana, or an area east of Great Falls, Montana.

II-1.4 Gasification Plant and Associated Facilities

The Montana Power Company has under consideration participation in the construction of one or more coal gasification plants. Because of the enormous investment requirement to construct such a plant, it would be impossible for Montana Power to construct such a plant alone. A partner or partners, with substantial financial standing, would be required to raise the necessary capital for such a plant. Whether a coal gasification plant or plants would be proposed within the next ten years will depend, among other things, on such factors as the continued availability of gas from Canada, new discoveries of gas available to Montana Power in Montana and neighboring states, development of gasification technology and availability of capital.

II-2. Electric Transmission Lines

Electric transmission lines projected to commence during the next ten years may be classified for purposes of

discussion into three groups. The first group consists of those transmission lines for which study has been made by The Montana Power Company and application has or will most likely be made. A second group consists of transmission lines which are now under study by The Montana Power Company generally for system improvement for which application may be made during the next ten years depending upon several factors, including the results of studies now under way by The Montana Power Company and future load growth and the location of new generation that comes on line. A third group consists of transmission lines for which application may be made depending upon such things as development of mining, irrigation, industrial or other particular loads.

The transmission lines in this first group with their general location and appropriate length and voltage and their approximate date for filing of application, preconstruction and construction, are shown on the attached chart marked Exhibit "B". Preconstruction activities may include surveying, right of way acquisition, and centerline location.

The transmission lines in the second group along with their approximate general location, approximate length and voltage and approximate date for filing of application and construction are shown on the attached chart marked Exhibit "C".

III. A DESCRIPTION OF EFFORTS BY THE MONTANA POWER COMPANY TO COORDINATE ITS PLANS WITH OTHER UTILITIES AS TO PROVIDE A COORDINATED REGIONAL PLAN FOR MEETING THE UTILITIES' NEEDS OF THE REGIONS.[2]

III-1. General

Two basic facts are evident from examining The Montana Power Company's coordinated regional planning. First, there is a great amount of cooperation among private and public utilities in the Pacific Northwest. Secondly, there are many benefits to The Montana Power Company and other utilities in the Pacific Northwest and to their customers as a result of this regional cooperation.

Montana Power Company regional efforts to improve its system reliability and availability of power supply are directed primarily to cooperation with other utilities in the Columbia River Basin of the Pacific Northwest because the River Basin provides a logical planning unit from a historical, geographical and electrical system standpoint.

The Montana Power Company has many agreements, as described in detail below, with other utilities in the Columbia River Basin. Montana Power Company continues these regional efforts to improve reliability and availability of power supply with the publicly owned utilities (such as rural cooperatives, municipals and public utility districts)

---

2. Montana Major Facilities Siting Act §70-814(1)(b) R.C.M. 1947; Montana Administrative Code §36-2.8(6)-S870(5).

and with privately owned utilities (such as Puget Sound Power and Light Company, The Washington Water Power Company, Portland General Electric Company, Pacific Power and Light Company, etc.) and with government agencies (such as Bonneville Power Administration, Corps of Engineers and Bureau of Reclamation). Montana Power also works closely with utilities, including the rural cooperatives in Montana.

III-2. Cooperation Among Utilities

Cooperation among utilities in the Pacific Northwest has historically evolved, and now is structured by various organizations and agreements. For example, these organizations and agreements include:

(1) Western Systems Coordinating Council which was organized August 4, 1967 to promote reliability of bulk power electric systems in the West. Members now include 19 investor owned and 27 publicly or cooperative owned systems as well as 13 affiliated member electrical systems. The area covers all or parts of 14 western states and British Columbia. The purpose of the council is to provide a formal means for exchange of data and information and to make regional studies and recommendations that will have a favorable bearing on the reliability and adequacy of electric service in the West.

(2) The Pacific Northwest Utilities Conference Committee consists of 108 non-federal public agencies and 5 private companies. Its purposes include the coordination of load/resource planning in the Northwest region. The Montana Power Company is now an active and formal member of the Committee.

(3) The Joint Power Planning Council also works with regional loads and resources. The Montana Power Company is actively represented in the Council.

(4) The Northwest Power Pool, of which The Montana Power Company is one of the organizers, coordinates the bulk power system operation in the Northwest area. It is a longstanding and successful voluntary power pool and one of the oldest in the nation. Members of the NWPP coordinate and optimize their respective bulk system operations to enhance reliability and efficiency.

(5) The Intercompany Pool (ICP) is a new formal power pool organization of seven investor-owned utilities within the Northwest Power Pool area. Its express purposes include joint planning for additional required resources and transmission, pooling of reserve requirements, and optimizing use and distribution of secondary energy among the members.

(6) The Pacific Northwest Coordination Agreement was culminated in 1964 after years of negotiation among private and public utilities on the Columbia River System. Its principal purposes are to coordinate and optimize hydro generation operation and to allow equitable distribution of benefits from hydro storage developments on the Columbia River Basin. It is also active in the development of large shared thermal-electric generating plants under the Hydrothermal Program.

(7) The Pacific Northwest Power Company, of which The Montana Power Company is a participant, was formed to pursue development of hydro generation, particularly on the Snake River.

(8) Other agreements among individual utilities such as AMPS Agreement (Associated Mountain Power Systems), consisting of Pacific Power & Light Company, Utah Power & Light Company, The Washington Water Power Company, The Montana Power Company and Idaho Power Company, are designed for the exchange of power and sharing of transmission capacity. For a limited period this agreement also provided for sharing the costs and outputs of particular steam-generating plants in Wyoming.

(9) There are also agreements and working relationships with the Federal Agencies such as the Bonneville Power Administration and the Bureau of Reclamation, and agreement with various cooperatives in the State of Montana such as the Central Montana G & T and other system review with Co-ops in Montana.

III-2.1 Benefits of Regional Cooperation

The benefits of such regional agreements and organizations as discussed above are:

(1) Maximizing the use of resources;

(2) Minimizing the cost of energy to the utilities and to their customers;

(3) Providing reliability and better service; and

(4) Minimizing environmental impact.

These benefits and objectives are studied and pursued in consideration of climates, water sheds, time zones, types of loads, etc., of each utility in the region. The exchange of power among utilities in the joint participation and construction and operation of facilities inures to all of these objectives.

An example of this type of regional planning by the Pacific Northwest utilities is found in the annual West Group Forecast of the Pacific Northwest Utilities Conference Committee, which lists the combined regional loads of the area and the combined resources available to meet those loads. Included in those resources are many jointly-planned plants to supply future resource requirements. Current summaries of loads and lists of future resources are shown on Exhibit "E" attached hereto excerpted from the 1976 West Group Forecast.

This regional cooperation allows a utility such as The Montana Power Company, which may have deficiency over a period of years, to import power from another state and utility in order to meet its deficiencies. Such an exchange of power and participation keeps the utility from having to build several small facilities every time the utility has a slight increase in load demand. The utility may be an importer for a period of time, and then it may be an exporter, and then in a few years, it will become an importer again.

This exchange of power among utilities in the Northwest may also occur at certain times of the year and times of the day because of the diversity of peak loads among utilities in this region.

Furthermore, regional cooperation and interconnected systems provide greater reliability to the customers of all regions. For example, if one utility's generation or transmission is out of service, another utility's facilities may help accommodate the utility with facilities out of service.

Furthermore, for the same amount of energy and service, the cost of construction and operation of fewer large facilities is less than the cost of construction and operation of many smaller facilities. This helps get energy to customers at the lowest possible rate.

Furthermore, fewer large facilities often have less environmental impact than many smaller facilities. For example, one larger transmission line may be built in lieu of several smaller transmission lines.

In summary, these objectives and resulting benefits of regional cooperation are in the interest of each utility and each of their customers. It is submitted that the regional cooperation is envisioned in siting legislation such as the Montana Major Facilities Siting Act.

IV. A DESCRIPTION OF THE MONTANA POWER COMPANY'S EFFORTS TO INVOLVE ENVIRONMENTAL PROTECTION AND LAND USE PLANNING AGENCIES IN THE PLANNING PROCESS, AS WELL AS OTHER EFFORTS OF THE MONTANA POWER COMPANY TO IDENTIFY AND TO MINIMIZE ENVIRONMENTAL PROBLEMS AT THE EARLIEST POSSIBLE STAGE IN THE PLANNING PROCESS.[3]

IV-1. General Policy

The Montana Power Company's policy and practice are to communicate and cooperate with Federal and State agencies as well as citizen and public interest groups on all energy and environmental matters to the extent practical.

IV-2. Participation in Land Use and Environmental Planning

The Montana Power Company cooperates with Federal and State government agencies regarding land use planning and environmental protection. For example, The Montana Power Company has participated in the multiple use plans of the United States Forest Service and the United States Bureau of Land Management. Montana Power also participates in a number of EPA activities, committees and seminars as well as committees of state agencies such as the Department of Health and Environmental Sciences.

The Montana Power Company also actively participates in a number of citizen groups and technical advisory groups concerned with the environment and the land use planning such as the Rock Creek Advisory Committee, the Natural Areas Committee, the Natural Resource Committee, Montana State Rural

---

3. Montana Major Facilities Siting Act §70-814(1)(c).

Areas Development, Montana Committee for Humanities and various water quality area planning organizations.

Representatives of The Montana Power Company also participate in a number of industry and professional associations and groups concerned with environmental and land use planning such as the Edison Electric Institute Environment and Energy Committee, the NELPA Environmental Committee, the American Right of Way Association, the WSCC Environmental Committee, the American Fishery Society, the Ecological Society of America, the North American Benthological Society and the Freshwater Biological Association.

With regard to particular projects, such as the proposed Colstrip Units 3 and 4, The Montana Power Company cooperates and works with government agencies, citizen groups, and the general public in the development of such proposals.

V. PROJECTIONS OF THE DEMAND FOR SERVICES RENDERED BY THE MONTANA POWER COMPANY AND EXPLANATION OF THE BASIS FOR SUCH PROJECTIONS, AND A DESCRIPTION OF THE MANNER AND EXTENT TO WHICH THE PROPOSED FACILITIES WILL MEET THE PROJECTED DEMAND.[4]

V-1. General

The Montana Power Company continuously monitors the demand for electricity and studies and pursues alternate resources to meet the demand. In addition to following national and regional trends in energy use, and developments

---

4. Montana Utility Siting Act Section 70-814(1)(d); Montana Administrative Code Section 36-2.8(6)-S870(3)(4).

in resource technology, the Company also makes load and resource forecasts of its own total system.

V-1.2 System Load and Resource Forecast For The Montana Power Company Total System

Load and resource forecasts are reviewed and updated frequently. These load and resource forecasts for the total Montana Power Company system are based not only on historical trends, but also are weighted in light of other factors such as anticipated additions or reductions of known loads, weather, economic conditions and many other factors. It is important to note that during the past twenty years the load projections of The Montana Power Company have been very accurate and, if anything, have under-projected load growth.

The load forecast presently being used (1/1/76 Load Forecast revised to include new Anaconda Company contract amounts) is a forecast where judgment was used to alter the historical "base" load trend. Due to the rather poor economic climate, the "base" loads were lowered from the historic trend through 1977 with recovery to the historical trend by 1980.

Analyses of actual loads for 1976 and for the first two months of 1977 have revealed some interesting facts. Actual energy base loads normalized for temperature were over 30 average megawatts above forecast during 1976 and have been over 55 average megawatts above forecast in 1977. These higher than expected loads even represent an increase over the historical trend. It has been decided, however, not to

alter the forecast at this time, since recent energy conservation pleas may temporarily alter this increase.

Some of the factors besides improvement in the economy which may have produced the higher than expected loads, include recent rapid increases in sprinkler irrigation and electric heating. A good example of this is the rapidly accelerating growth of electric heating in the Billings area resulting from the limitation of gas hookups placed on Montana-Dakota Utilities by the Federal Power Commission. There have also been many inquiries from new and existing industrial customers for the possibility of future power sources. As with energy conservation, presently there is insufficient data available in order to alter the forecast with any certainty. As more data becomes available, the forecast will be changed accordingly since forecasting is a continual process.

The method by which The Montana Power Company forecasts its loads is as follows: First, the Company separates the total load into a "base" component and a "block" component. The latter consists of a small number of large industrial users whose loads have exhibited no discernible trend over the years. Future loads for this group, both peak and average energy, are projected on a customer-by-customer basis after consultation with these "block" load customers. Future loads for the remaining component, the "base" component, are projected by means of

trend extrapolation, and then adjusting this trend for other developing factors such as changes in the economy. Both peak and average energy loads are projected for this component as well as for the "block" load component. Overall, Montana Power's methods of forecasting loads are similar to those traditionally employed by most other utility companies. Like many other utilities, Montana Power Company is currently developing an econometric model which when completed will be used to help with load forecasting.

The Montana Power Company also continuously monitors its own load and resource projections. As noted above, loads in 1976 and 1977 have exceeded The Montana Power Company's forecasts. Attached hereto as Exhibits "F" and "G" are the load and resource projections as of March, 1977, for The Montana Power Company's system for each of the next ten years. These load and resource projections present projections for average energy and peak loads, both including Colstrip Units 3 and 4 (Exhibit "F"), and excluding Colstrip Units 3 and 4 (Exhibit "G").

V-1.3 Substation Load Analysis

In addition to making load and resource forecasts for its total system, The Montana Power Company also monitors loads on each of its approximately 600 substations throughout its service area. The monthly peak and average kilowatts used at each of these substations during 1976 are shown on the attached table marked Exhibit "H" entitled "1976 Peak and Average Kilowatt Readings for Distribution Substations".

Future energy demand patterns of a substation unit area for annual increments for the next ten years are shown on the attached table marked Exhibit "I" entitled "Estimated Peak Substation Load in Kilowatts 1977-1987".[5] The area that each of the substations serve is indicated in the map format and the substation identified by its installation number as required by the regulations.[6] The map showing the substations is marked Exhibit "J".

The "NA" designation on Exhibit "H" indicates that the reading for that particular substation was not acceptable. Such a designation is a result of several possible reasons, including that the substation reading was obviously incorrect or no reading was reported.

The Estimated Peak Substation Load shown on Exhibit "J" is based on a recording period from April to April. For this reason, the column headings are not listed as a singular year. This is done so that the winter peaks may be recorded for the three consecutive winter months of December, January and February; i.e., the 76-77 peaks including December of 1976 and January and February of 1977 (January, 1976, is not included). The peaks indicated are not coincidental. They represent the maximum peak reading anticipated for the year and may occur at any time during the year.

---

5. Montana Administrative Code Section 36-2.8(6)-S870(4)

6. Montana Administrative Code Section 36-2.8(6)-S870(3)

The basic projections were made by fitting a compound growth curve by means of a least squares method fit to the existing data. The projections were then analyzed for their validity, taking into consideration the number of years of data the projection was based on, recent trends in the area, and expected load additions. If a projection made by the computer is obviously not valid, a reasonable prediction is made based on historical and known load growth data for the area.

V-1.4 Meeting System Loads

Projections based on continuous monitoring of substations and other factors are studied by The Montana Power Company to determine what expansion programs are necessary on its system. Expansion programs may mean increasing transformer size for capability, adding additional transformers or building new substations, or building new transmission or generation facilities. New substations or a shifting of loads from substation to substation or transformer to transformer may give an erroneous impression of actual area growth. A careful analysis of changes which have taken place is necessary to determine actual load growth in an area. To establish load growth rates, many factors must be considered and analyzed. Weather conditions, extended outages, switching of loads, construction procedures, industrial and commercial development, urban

development, development of residential subdivisions, irrigation and pumping, electric space heating and air conditioning requirements are some of these factors which must be considered as they may affect load growth rates. When accurate substation growth rates are determined, then "load flow" computer programs are developed from these rates and are used as an aid in determining transmission line requirements.

When it appears that additional transmission lines or generation are needed as a result of this monthly and yearly monitoring of substation load changes and as a result of all of the many other factors such as weather conditions, extended outages, switching of loads, industrial and commercial development, urban development, irrigation and pumping, etc., then more detailed studies of transmission line and generation requirements are made.

In addition to the continuous monitoring of the entire system by monthly and yearly changes, The Montana Power Company also takes into consideration the anticipated or trends in type of load growth. For example, The Montana Power Company considers inquiries or requests for major additional loads from industrial, agricultural or other sources. The Montana Power Company also considers and anticipates that certain uses of electricity, such as the use of electricity for sprinkler irrigation or home heating, will create substantial additions to its load demand.

The Montana Power Company, in an attempt to fulfill its responsibility to provide electric service to its customers, attempts to balance electrical resources against electrical load. This is done on both a peak and energy basis. Such forecasts must also include consideration of reserves which are required to make sure that the Company can serve its customers at all times. The forecasts also take into account required down time of plants and facilities for maintenance and contracts of exchange with other utilities. When it is determined that a new source of generation or transmission is needed, The Montana Power Company considers the alternatives for meeting these requirements and makes further detailed studies regarding the needed facility. As pointed out in Section III hereof, such studies are often conducted in cooperation with other utilities in the region.

The general size and type of utility facilities to be owned and operated by The Montana Power Company, which are discussed in Section II above, are a result of all of these studies and considerations regarding projection and demand. If the facilities that are proposed in Section II above are allowed to be build as scheduled by The Montana Power Company, such facilities should adequately meet the projected demand.

EXHIBIT "A"

EXHIBIT A

GENERATION ALTERNATIVES

	1977				1978		1979		1980	1981	1982	1983	1984	1985	1986
	1st	2nd	3rd	4th	1st	2nd	1st	2nd							
Colstrip #3	P	C	C	C	C	C	C	C	C	C					
Colstrip #4	P	C	C	C	C	C	C	C	C	C	C				
Buffalo Rapids#												C	C	C	C
Kerr Expansion*														C	C
330 MW Coal Fired Plant											F	P	P	C	C
Participation in Plant Outside Montana															

F - File Application with Department of Natural Resources and Conservation

P - Preconstruction

C - Construction

*Depend on prior agreement with Indians and FPC License

EXHIBIT "B"

F = File Application with DNR
S = DNR Study Time of Application
P = Preconstruction
C = Construction

EXHIBIT "B"

TRANSMISSION

Project & General Location	Approx Length (Miles)	Voltage kV	1977 1st Qtr	1977 2nd Qtr	1977 3rd Qtr	1977 4th Qtr	1978 1st Half	1978 2nd Half	1979 1st Half	1979 2nd Half	1980	1981	1982	1983	1984	1985	1986	1987
Clyde Park-Bozeman "B"	30	161	P	P	P	P	C	C										
Clyde Park-Emigrant	39	161			P	P	P	P	C	C								
Dillon-Big Sky	76	161		P	P	P	P	P	C	C								
Bozeman-Ennis	52	161					P	P	C	C								
Broadview-Alkali Creek	18	230	P	C	C													
Broadview-Roundup-Glengarry	120	100	S	S	P	P	P	C	C									
Anaconda-Hamilton	65	161			P	P	P	P	P	C	C							
Great Falls-Conrad-Browning	100	115					F	S	S	S	SP	C	C					
Colstrip-Broadview "B"	113	500	P	P	P	P	C	C	C	C								
Broadview-Hot Springs "A"	320	500	P	P	P	P	P	C	C	C	C							
Broadview-Hot Springs "B"	320	500	P	P	P	P	P	P	C	C	C	C						

EXHIBIT "C"

F = Filing Date
S = DNR Study
C = Construction

EXHIBIT "C"

POTENTIAL TRANSMISSION PROJECTS FOR MAINTAINING ELECTRICAL SERVICE AND MEETING ELECTRICAL DEMANDS

Project & General Location	Approx Length (Miles)	Voltage (kV)	1977	1978	1979	1980	1981	1982	1983	1984	1985	19
Bridger-Red Lodge-Nye	40	100		F	S	C	C					
Convert Rimrock-Bellrock 8th Street Sub 50 kV	12	100							F	S	C	
Anaconda-Philipsburg-Drummond	60	100			F	S	C	C(Necessary if Anaconda-Hamilton 161 kV is not approved)				
Laurel Tie	15	230			F	S	C					
Helena Valley-East Helena	10	100				F	S	C				
Loweth-White Sulphur	25	100					F	S	C			
Helena-Great Falls	70	230					F	S	S	C	C	
Helena-Anaconda	60	230				F	S	S	C	C		
Missoula-Waldorf (Reconductor)	13	100						F	S	C		
Roundup-Sumatra	50	100				F	S	S	C			
*Billings-Great Falls "B"	180	230					F	S	C	C		
*Colstrip-Billings	100	230					F	S	C	C		
*Billings-Anaconda	225	230		F	S	S	C	C				
*Kerr-Hot Springs	25	230			F	S	C	C				

*Contingent on 500 kV Transmission Project - necessary if 500 kV project is not built.

EXHIBIT "D"

EXHIBIT "D"

TRANSMISSION PROJECTS FOR POTENTIAL LARGE ELECTRIC LOADS

	Probable Voltage (kV)
Dillon-Salmon Tie "A" Line	161
Dillon-Salmon Tie "B" Line	161
Columbus-Nye (2 lines)	161
Rattlesnake-Waldorf "A" Line	161
Rattlesnake-Waldorf "B" Line	161
Heddleston-Lincoln Area	230
Montana St. Sub-Divide	100
Thompson Falls Area	230
Gold Creek Area	Unknown
Chinook Area	161
Dillon Area	161
Colstrip Area	Unknown
Glasgow-Colstrip	230
Malta Area	161
Northern Tier Pipeline Project	Unknown

EXHIBIT "E"

EXHIBIT "E"

WEST GROUP FORECAST - ESTIMATED LOADS AND RESOURCES
JULY 1977 - JUNE 1988

Figures are megawatts		1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
1. Total Area Peak Load (January)		24,020	25,202	26,742	27,963	29,229	30,561	31,816	33,187	34,633	36,128	37,744
2. Total Peak Resources 1/		28,187	31,589	32,668	34,580	37,325	37,462	39,326	41,861	44,177	46,191	46,847
3. Reserve Requirements		(2,882)	(3,276)	(3,744)	(4,194)	(4,677)	(5,195)	(5,727)	(6,306)	(6,927)	(7,226)	(7,549)
4. Peak Resources		25,305	28,313	28,924	30,386	32,648	32,267	33,599	35,555	37,250	38,965	39,298
5. Peak Surplus (Over Total Load)		1,285	3,111	2,182	2,423	3,419	1,706	1,783	2,368	2,617	2,837	1,554
6. Total July-June Energy Load		15,545	16,326	17,335	18,178	18,948	19,770	20,565	21,401	22,281	23,183	24,128
7. Total Energy Resources 1/		15,032	15,489	15,693	16,703	18,126	18,929	19,306	20,700	22,277	23,337	23,414
8. Reserve Requirements		(313)	(322)	(330)	(351)	(386)	(368)	(388)	(407)	(421)	(444)	(478)
9. Energy Resources		14,719	15,167	15,363	16,352	17,740	18,561	18,918	20,293	21,856	22,893	22,936
10. Energy Surplus (Over Total Load)		(826)	(1,159)	(1,972)	(1,826)	(1,208)	(1,209)	(1,647)	(1,108)	(425)	(290)	(1,192)
11. Interruptible Load (Included in Lines 1 and 6)	-Peak	1,006	1,066	1,199	1,237	1,195	1,143	1,153	1,164	1,174	1,185	1,195
	-Energy	975	1,046	1,149	1,200	1,159	1,108	1,118	1,128	1,138	1,149	1,159
12. Fossil-Thermal & Miscellaneous Resources (Not Included Above) 2/	-Peak	-	-	-	-	-	-	-	-	-	-	-
	-Energy	554	611	617	611	611	611	611	611	603	603	603
Probability that Resources Will Be Insufficient to Meet Total Energy Load in at Least 1 Period of: 3/												
13. Year Shown	-%	31.2	18.6	35.2	31.8	15.8	18.0	21.0	18.4	11.0	15.0	24.6
14. Years, 1978-79 through Year Shown	-%	-	18.6	41.6	59.2	65.0	69.8	75.6	79.2	80.8	84.6	87.2
Probability that Resources Will Be Insufficient to Meet Firm Energy Load in At Least 1 Period of: 3/												
15. Year Shown	-%	17.4	9.6	11.8	10.2	4.8	6.4	7.6	6.0	3.0	4.6	9.4
16. Years, 1978-79 through Year Shown	-%	-	9.6	18.6	25.4	28.2	32.6	37.2	41.0	42.4	45.4	50.8

1/ Resources include hydro; small fossil-fuel plants; Hanford-NPR through June 1983; Centralia; Trojan; Colstrip #1 and #2 (50%), #3 and #4 (70%); WPPSS Nuclear #1, #2, #3, #4, #5; Boardman Coal; Skagit #1 and #2; Pebble Springs #1; and net contractual imports/exports with utilities outside the area. Hanford is not included as a peak resource. Estimated amounts for scheduled maintenance (energy only), hydro realization factor (peak only) and incremental losses have been deducted. All existing thermal units and future thermal units under 500 megawatts (peak and energy) are included in amounts as submitted by respective project owners. The energy availability of all future thermal units 500 megawatts or larger has been included as 60% of the first full year and 75% thereafter.

2/ The energy megawatts tabulated in line 12 reflect the amounts of energy available from existing fossil and gas turbine installations which may be considered available as reserve energy resources. These amounts are in addition to those included as firm energy resources in line 7.

3/ Based on same load and resource data as other tabulations herein, except that there is no consideration of energy reserve requirements or realization factor. Study initialized on the basis of actual system conditions and streamflow forecasts made as of February 1, 1977. Because the outlook for 1977-78 is strongly affected by the poor runoff forecasted for 1977, the probabilities for 1977-78 are omitted from the accumulated probability figures. The tabulation shows probability of not meeting load, while last year's West Group Forecast showed probability of meeting load.

New Generating Units Installed During the Report Period

Plant	Initial Operation	Date of Completion	Nameplate Rating
Lost Creek	Feb 1977	Mar 1977	49
Chief Joseph	May 1977	May 1979	1,045
Grand Coulee	Sep 1977	Sep 1978	2,100
Grand Coulee Pump-Generators	Oct 1979	Oct 1980	200
Lower Granite	Jan 1978	Mar 1978	405
Little Goose	Feb 1978	May 1978	405
Lower Monumental	Feb 1979	Apr 1979	405
Bonneville	May 1981	Jul 1982	532
Libby	Nov 1983	Nov 1983	420
Libby Reregulating	Dec 1983	Apr 1984	76
Rock Island	Feb 1978	Feb 1979	408
Noxon Rapids	Nov 1977	Nov 1977	114
Northeast Turbine	Oct 1978	Oct 1978	30
Colstrip #3 and #4 (70% for Area Resource)	Oct 1980	Aug 1981	980*
Skagit #1	Jul 1984	Jul 1984	1,330
Skagit #2	Aug 1986	Aug 1986	1,330
Beaver Combined Cycle	Nov 1977	Nov 1977	168
Boardman Coal (90% for Area Resource)	Jul 1980	Jul 1980	504*
Pebble Springs #1	Jul 1985	Jul 1985	1,295
Jim Bridger #4	Dec 1979	Dec 1979	509**
Washington Public Power Supply System #2	Jun 1980	Jun 1980	1,100
Washington Public Power Supply System #1	Sep 1981	Sep 1981	1,373
Washington Public Power Supply System #3	May 1983	May 1983	1,316
Washington Public Power Supply System #4	Mar 1983	Mar 1983	1,373
Washington Public Power Supply System #5	Nov 1984	Nov 1984	1,316
Total New Installations			18,783

December 31, 1976 Installed Capacity - Hydro	22,556	
- Hanford Steam	800	
- Existing Thermal & Miscellaneous	1,246	
- Centralia	1,330	
- Jim Bridger #1, #2, #3	1,526**	
- Colstrip #1, #2	358*	
- Trojan	1,216	29,032
Total Installed Capacity - Megawatts		47,815

*Portion of plant shown as a West Group area resource.
**Generation from Jim Bridger is included in transfers from East.

SUMMARY OF RESOURCES

JANUARY PEAK CAPABILITY - Mw	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
1. Columbia Mainstem Hydro	22,477	25,736	26,506	26,603	26,869	27,077	27,627	27,712	27,613	27,834	27,780
2. Seasonal Hydro	2,728	2,729	2,733	2,975	2,969	2,972	2,975	2,974	2,975	2,974	2,973
3. Pondage & Minor Hydro	480	480	480	480	480	480	480	480	480	480	480
4. Small Existing Thermal	1,376	1,411	1,411	1,403	1,403	1,403	1,403	1,403	1,393	1,393	1,393
5. Miscellaneous (Industrial)	23	23	23	23	23	23	23	23	23	23	23
6. Centralia #1 and #2	1,313	1,313	1,313	1,313	1,313	1,313	1,313	1,313	1,313	1,313	1,313
7. Colstrip #1 and #2	330	330	330	330	330	330	330	330	330	330	330
8. Trojan	1,130	1,130	1,130	1,130	1,130	1,130	1,130	1,130	1,130	1,130	1,130
9. WNP #2	-	-	-	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
10. Boardman Coal	-	-	-	477	477	477	477	477	477	477	477
11. Colstrip #3	-	-	-	0	490	490	490	490	490	490	490
12. WNP #1	-	-	-	-	1,250	1,250	1,250	1,250	1,250	1,250	1,250
13. Colstrip #4	-	-	-	-	490	490	490	490	490	490	490
14. WNP #4	-	-	-	-	-	-	1,250	1,250	1,250	1,250	1,250
15. WNP #3	-	-	-	-	-	-	0	1,240	1,240	1,240	1,240
16. Skagit #1	-	-	-	-	-	-	-	1,288	1,288	1,288	1,288
17. Pebble Springs #1	-	-	-	-	-	-	-	-	1,260	1,260	1,260
18. WNP #5	-	-	-	-	-	-	-	0	1,240	1,240	1,240
19. Skagit #2	-	-	-	-	-	-	-	-	-	1,288	1,288
20. Exports to East	(123)	(284)	(226)	(244)	(245)	(247)	(248)	(249)	(251)	(253)	(104)
21. Imports from East	1,297	1,554	1,838	1,864	1,707	1,645	1,578	1,506	1,427	1,344	1,253
22. Exports to Pacific Southwest	(2,014)	(1,864)	(1,864)	(1,864)	(1,464)	(1,464)	(1,314)	(1,314)	(1,314)	(736)	(112)
23. Imports from Pacific Southwest	100	100	100	100	100	100	100	100	100	100	100
24. Incremental Losses 1/	(101)	(94)	(94)	(94)	(67)	(67)	(60)	(60)	(60)	(36)	(10)
25. Hydro Realization Factor 2/	(829)	(975)	(1,012)	(1,016)	(1,030)	(1,040)	(1,068)	(1,072)	(1,067)	(1,078)	(1,075)
26. Total Peak Resources	28,187	31,589	32,668	34,580	37,325	37,462	39,326	41,861	44,177	46,191	46,847

1/ Incremental losses from generator to border associated with deliveries under contracts with Pacific Southwest utilities.

2/ These figures represent a 5% hydro realization factor on the Federal System due to inability to simultaneously generate aggregate of individual plant peaking capabilities.

SUMMARY OF RESOURCES

CONTRACT YEAR ENERGY CAPABILITY - Mw	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
1. Columbia Mainstem Hydro	10,512	10,588	10,593	10,574	10,616	10,615	10,640	10,623	10,594	10,593	10,593
2. Seasonal Hydro	1,147	1,148	1,147	1,181	1,181	1,182	1,182	1,182	1,182	1,182	1,182
3. Pondage & Minor Hydro	319	319	319	319	319	319	319	319	319	319	319
4. Small Existing Thermal	130	131	131	130	130	130	130	130	128	128	128
5. Miscellaneous (Industrial)	9	9	9	9	9	9	9	9	9	9	9
6. Hanford Steam 1/	512	515	515	515	515	515	-	-	-	-	-
7. Centralia #1 and #2	919	919	919	919	919	919	919	919	919	919	919
8. Colstrip #1 and #2	274	280	255	293	293	274	280	280	280	280	280
9. Trojan	758	847	847	847	847	847	847	847	847	847	847
10. WNP #2	-	-	55	674	825	825	825	825	825	825	825
11. Boardman Coal	-	-	-	191	334	358	358	358	358	358	358
12. Colstrip #3	-	-	-	122	325	368	368	368	368	368	368
13. WNP #1	-	-	-	-	562	891	938	938	938	938	938
14. Colstrip #4	-	-	-	-	172	337	368	368	368	368	368
15. WNP #4	-	-	-	-	-	188	797	938	938	938	938
16. WNP #3	-	-	-	-	-	0	124	775	930	930	930
17. Skagit #1	-	-	-	-	-	-	-	709	950	966	966
18. Pebble Springs #1	-	-	-	-	-	-	-	-	756	945	945
19. WNP #5	-	-	-	-	-	-	-	0	496	868	930
20. Skagit #2	-	-	-	-	-	-	-	-	-	709	950
21. Exports to East	(210)	(160)	(141)	(162)	(159)	(155)	(157)	(159)	(161)	(163)	(165)
22. Imports from East	814	968	1,118	1,161	1,152	1,058	1,037	949	911	836	790
23. Exports to Pacific Southwest	(496)	(435)	(432)	(429)	(282)	(128)	(40)	(40)	(40)	(40)	(40)
24. Imports from Pacific Southwest	416	429	429	429	429	429	415	415	415	268	90
25. Incremental Losses 2/	(25)	(23)	(23)	(23)	(14)	(5)	(3)	(3)	(3)	(3)	(3)
26. Estimated Hydro Maintenance	(47)	(46)	(48)	(47)	(47)	(47)	(50)	(50)	(50)	(51)	(51)
27. Total Energy Resources	15,032	15,489	15,693	16,703	18,126	18,929	19,306	20,700	22,277	23,337	23,414
28. Thermal & Miscellaneous Resources (Not Included Above)	554	611	617	611	611	611	611	611	603	603	603

1/ Hanford-NPR operation is assumed available through June 1983.

2/ Incremental losses from generator to border associated with deliveries under contracts with Pacific Southwest utilities.

EXHIBIT "F"

THE MONTANA POWER COMPANY
LOADS AND RESOURCES
(Including Colstrip Units #3 and #4)

March 1977

Operating year (July-June)

AVERAGE ENERGY-MW

	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
FIRM ENERGY LOAD	682	727	776	819	856	896	937	982	1028	1077
RESOURCES										
Hydro-Critical H_2O	337	337	337	337	337	337	337	337	337	337
Bird										
Corette	157	157	157	157	157	157	157	157	157	157
Colstrip No. 1	165	165	165	165	165	165	165	165	165	165
Colstrip No. 2	165	165	165	165	165	165	165	165	165	165
*Colstrip No. 3	-	-	-	-	192	210	210	210	210	210
*Colstrip No. 4	-	-	-	-	18	210	210	210	210	210
BPA	35	30	20	10	5	-	-	-	-	-
BPA (Wheeling)	15	16	17	19	20	22	23	25	27	29
BPA (Energy/Peak Trade)	-	(14)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)
Hanford Debt Service	20	20	20	-	-	-	-	-	-	-
Hanford Extension	49	49	49	49	49	49	-	-	-	-
WWP (Hanford Trade)	(20)	(20)	(20)	-	-	-	-	-	-	-
WNP No. 1	-	-	-	68	68	68	68	68	68	68
UTAH (K-1)	(10)	-	-	-	-	-	-	-	-	-
UTAH (MU-1)	(8)	-	-	-	-	-	-	-	-	-
TOTAL RESOURCES	905	905	892	952	1158	1365	1317	1319	1321	1323
Surplus over firm load with critical water	223	178	116	133	302	469	380	337	293	246
Less Maintenance & Availability Adj.	108	108	108	108	192	245	213	213	213	213
Interruptible included in Adjustment	15	16	17	18	19	21	22	24	25	27
NET SURPLUS	115	70	8	25	110	224	167	124	80	33
Median Water Adder	51	51	51	51	51	51	51	51	51	51
Bird (Maintenance & Availability deducted) (only if oil is available)	60	60	60	60	60	60	60	60	60	60

*Scheduled dates of operation

Colstrip No. 3 - Aug. 1, 1981
Colstrip No. 4 - June 1, 1982

EXHIBIT "F"
Page 1 of 2

THE MONTANA POWER COMPANY
LOADS AND RESOURCES
(Including Colstrip Units #3 and #4)

March 1977

ANNUAL PEAK - MW

	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
FIRM PEAK LOAD	961	1006	1074	1147	1196	1247	1301	1357	1417	1479
RESOURCES										
Hydro	520	520	520	520	520	520	520	520	520	520
Bird	70	70	70	70	70	70	70	70	70	70
Corette	180	180	180	180	180	180	180	180	180	180
Colstrip No. 1	165	165	165	165	165	165	165	165	165	165
Colstrip No. 2	165	165	165	165	165	165	165	165	165	165
*Colstrip No. 3	-	-	-	-	210	210	210	210	210	210
*Colstrip No. 4	-	-	-	-	-	210	210	210	210	210
BPA	50	110	50	50	50	50	50	50	50	50
BPA (Wheeling)	11	12	13	14	15	17	18	19	21	23
BPA (Energy/Peak Trade)	-	100	100	100	100	100	100	100	100	100
Hanford Debt Service	20	20	20	-	-	-	-	-	-	-
WWP (Hanford Trade)	22	22	23	-	-	-	-	-	-	-
WNP No. 1	-	-	-	80	80	80	80	80	80	80
TOTAL RESOURCES	1203	1364	1306	1344	1555	1767	1768	1769	1771	1773
Surplus over Firm Load	242	358	232	197	359	520	467	412	354	294
Less Reserves	180	180	180	180	212	243	243	243	243	243
Interruptible included in Reserves	18	19	21	22	24	25	27	29	31	33
Surplus over Firm Load & Reserves	62	178	52	17	147	277	224	169	111	51

*Scheduled dates of operation

Colstrip No. 3 - Aug. 1, 1981
Colstrip No. 4 - June 1, 1982

No maintenance is assumed during peak period.

EXHIBIT "F"
Page 2 of 2

EXHIBIT "G"

THE MONTANA POWER COMPANY
LOADS AND RESOURCES
(Excluding Colstrip Units #3 and #4)

March 1977

ANNUAL PEAK - MW

	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
FIRM PEAK LOAD	961	1006	1074	1147	1196	1247	1301	1357	1417	1479
RESOURCES										
Hydro	520	520	520	520	520	520	520	520	520	520
Bird	70	70	70	70	70	70	70	70	70	70
Corette	180	180	180	180	180	180	180	180	180	180
Colstrip No. 1	165	165	165	165	165	165	165	165	165	165
Colstrip No. 2	165	165	165	165	165	165	165	165	165	165
BPA	50	110	50	50	50	50	50	50	50	50
BPA (Wheeling)	11	12	13	14	15	17	18	19	21	23
BPA (Energy/Peak Trade)	-	100	100	100	100	100	100	100	100	100
Hanford Debt Service	20	20	20	-	-	-	-	-	-	-
WWP (Hanford Trade)	22	22	23	-	-	-	-	-	-	-
WNP No. 1	-	-	-	80	80	80	80	80	80	80
TOTAL RESOURCES	1203	1364	1306	1344	1345	1347	1348	1349	1351	1353
Surplus over Firm Load	242	358	232	197	149	100	47	(8)	(66)	(126)
Less Reserves	180	180	180	180	180	180	180	180	180	180
Interruptible included in Reserves	18	19	21	22	24	25	27	29	31	33
Surplus over Firm Load & Reserves	62	178	52	17	(31)	(80)	(133)	(188)	(246)	(306)

No maintenance is assumed during peak period.

EXHIBIT "G"
Page 1 of 2

THE MONTANA POWER COMPANY
LOADS AND RESOURCES
(Excluding Colstrip Units #3 and #4)

March 1977

Operating Year (July-June)

AVERAGE ENERGY - MW

	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
FIRM ENERGY LOAD	682	727	776	819	856	896	937	982	1028	1077
RESOURCES										
Hydro-Critical H_2O	337	337	337	337	337	337	337	337	337	337
Bird										
Corette	157	157	157	157	157	157	157	157	157	157
Colstrip No. 1	165	165	165	165	165	165	165	165	165	165
Colstrip No. 2	165	165	165	165	165	165	165	165	165	165
BPA	35	30	20	10	5	-	-	-	-	-
BPA (Wheeling)	15	16	17	19	20	22	23	25	27	29
BPA (Energy/Peak Trade)	-	(14)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)
Hanford Debt Service	20	20	20	-	-	-	-	-	-	-
Hanford Extension	49	49	49	49	49	49	-	-	-	-
WWP (Hanford Trade)	(20)	(20)	(20)	-	-	-	-	-	-	-
WNP No. 1	-	-	-	68	68	68	68	68	68	68
UTAH (K-1)	(10)	-	-	-	-	-	-	-	-	-
UTAH (MU-1)	(8)	-	-	-	-	-	-	-	-	-
TOTAL RESOURCES	905	905	892	952	948	945	897	899	901	903
Surplus over Firm LOAD with Critical Water	223	178	116	133	92	49	(40)	(83)	(127)	(174)
Less Maintenance & Availability Adj.	108	108	108	108	108	108	108	108	108	108
Interruptible included in Adjustment	15	16	17	18	19	21	22	24	25	27
NET SURPLUS	115	70	8	25	(16)	(59)	(148)	(191)	(235)	(282)
Median Water Adder	51	51	51	51	51	51	51	51	51	51
Bird (Maintenance & Availability deducted) (only if oil is available)	60	60	60	60	60	60	60	60	60	60

EXHIBIT "G"
Page 2 of 2

EXHIBIT "H"

EXHIBIT "H"

1976 PEAK AND AVERAGE KILOWATT READINGS FOR DISTRIBUTION SUBSTATIONS

(TOP READING - PEAK LOWER READING - AVG.)

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1- 91	ANACONDA CITY NO. 1	2712	2712	2520	3120	3264	2280	2400	2208	2208	4080	2760	2880
		1664	1679	1718	1493	1448	1362	1317	1338	1288	1551	1714	1494
1- 92	ANACONDA CITY NO. 2	2280	2328	1920	1680	1728	1584	1560	1512	1536	1728	1872	3240
		1432	1457	1282	1078	1034	969	920	948	960	1140	1205	1949
1- 94	ANACONDA CITY NO. 3	1368	2052	2880	1080	1584	1152	540	1260	1548	1440	1440	1620
		879	814	793	694	771	385	165	657	978	1036	982	1076
1- 95	ANACONDA CITY NO. 4	5112	5472	5400	3960	4860	4500	4500	4320	4212	5220	5580	5760
		3450	3696	4050	3572	3466	3269	3365	3331	3066	3530	NA	2079
1- 120	DRLGE MILW. SHOP	296	248	132	112	96	96	96	84	96	108	116	116
		219	203	106	95	84	76	87	59	75	93	92	92
1- 131	DEERLODGE CITY 4.16	2400	2400	2400	1968	1968	1824	1872	1824	1824	2016	2496	2736
		1556	1507	1523	1362	1186	1206	1448	987	1250	1359	1547	1627
1- 132	DEERLODGE CITY 12.5	576	480	768	528	432	576	480	432	408	456	672	408
		433	448	453	366	352	456	465	319	400	375	428	393
1- 133	DEERLODGE 25 KV	1620	1836	1440	1080	1440	1980	1584	2160	720	720	2052	720
		761	867	825	719	771	1378	1418	1456	530	605	755	680
1- 140	DEERLODGE GAS PUMP	1092	912	1440	816	852	744	24	672	492	1536	1476	1620
		688	737	652	467	183	105	2	6	30	320	531	716
1- 160	MONT. PHOSPHATE SUB	1890	1728	1836	1620	1620	1620	1620	810	1620	1620	1692	1980
		1224	1667	1060	1095	1241	791	1290	435	652	963	517	1078
1- 181	DRUMMOND CITY	960	1200	1080	840	NA	768	768	792	588	672	1116	1206
		613	848	618	360	NA	471	590	547	408	421	702	825
1- 183	DRUMMOND PUMP	960	864	888	NA	960	960	840	912	960	NA	888	840
		355	353	384	NA	260	400	325	334	361	NA	213	383
1- 189	INDUSTRIAL PARK	1680	1680	1680	1680	1680	4200	4200	1680	1680	1680	1680	2100
		1061	1102	1073	1185	888	1575	941	835	858	950	1039	1477
1- 190	PACIFIC STREET	5424	5472	5184	5088	4992	4992	4896	4992	4704	4704	5472	5664
		3606	3593	3632	3316	3157	3006	3133	3194	3155	3357	3506	3813

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1- 212	ARBITER BANK NO. 1	NA	1680	1008	1680	1176	2016	3360	6720	8400	8232	8400	11760
		NA	925	950	907	748	646	1671	3525	5516	6333	6242	7806
1- 213	ARBITER BANK NO. 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1- 215	ANACONDA SMELTER A	36600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		7545	7625	6533	5508	4713	5633	5155	4470	4510	4333	4702	3845
1- 216	COMP. SUB-SMELTER	7200	6660	9720	10080	9720	9720	10080	9720	10080	NA	9720	9540
		NA	5175	7446	7711	7836	6889	7329	7261	6485	7629	7339	6279
1- 217	CONVERTER SUB ANA	4500	4500	4200	4100	3800	3600	NA	3300	3500	3600	3500	3800
		3504	2599	2802	NA	NA	2961	2906	2116	2104	2686	2598	2664
1- 218	ACID PLANT ANA	4000	4000	4000	4000	4000	4000	4000	3800	4000	4000	4000	4200
		NA	3594	2902	3352	3003	2997	3288	2553	2250	3148	2970	2852
1- 221	CONCENT. BK 1 ANA	8100	7900	8000	7600	7900	7800	7800	7900	8000	8200	8000	8200
		7323	7071	7561	7025	7119	6920	6957	6710	7463	7637	7013	7379
1- 222	CONCENT. BK. 2 ANA	8290	8410	8400	8000	8400	8200	8600	8400	8400	8400	8500	8400
		7560	7704	8012	7594	7573	7571	7443	7210	7869	8039	7561	7773
1- 223	CONCENT. BK. 3 ANA	8290	8000	8000	7800	7900	7900	8000	7600	8000	8000	8000	7800
		7301	7394	7762	7208	7207	7306	7121	6625	7379	7731	7251	7589
1- 224	CONCENT. BK. 4 ANA	3800	3800	3500	5900	4400	3600	3800	3800	NA	NA	3800	3600
		3028	2933	3031	2913	3017	2907	2900	2722	NA	NA	2881	3021
1- 225	CONCENT. BK. 5 ANA	6920	6100	6400	6000	6200	6400	6400	6000	6400	6400	6500	6200
		5237	4583	5063	4672	4593	4927	4773	4203	4760	5075	4792	3873
1- 232	MONTANA ST. BANK 1	5856	5760	5184	4512	4032	3936	3936	4128	4128	3552	5232	5952
		3413	3444	3400	2968	2750	2648	2640	2656	2800	3014	3344	3719
1- 233	MONTANA ST. BANK 2	3168	3072	3072	2976	2880	2880	2880	2880	2880	2880	2976	3168
		2058	2007	2039	1903	1793	1745	1800	1769	1840	1903	2013	2144
1- 234	MONTANA ST. BANK 3	3648	3840	3648	3456	3360	3552	3648	3456	3264	3456	4080	4128
		2374	2504	2523	2297	2193	2212	2253	2244	2307	2345	2488	2700
1- 235	MONTANA ST. BANK 4	7680	7680	7488	6720	5952	5760	5952	5760	6720	7296	7680	8064
		4903	4933	5006	4439	4243	3382	4240	4213	4400	4634	4925	5325

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1- 240	TAILINGS BOOST ANA	4600 4165	5400 4039	5000 4153	5300 3939	5600 3987	5000 3896	5200 3902	5000 3689	5500 4105	5400 4090	5000 3781	5300 4029
1- 241	CRUSHER BK. 1 ANA	2240 NA	2400 NA	2400 NA	2240 NA	2240 NA	2400 NA	2240 NA	2400 NA	2240 NA	2240 NA	2400 NA	2400 NA
1- 242	CRUSHER BK. 2 ANA	384 NA	384 NA	384 NA	384 NA	384 NA	480 NA	480 NA	384 NA	288 NA	288 NA	288 NA	288 NA
1- 243	PRECIP SUB BK 1 AN	9840 NA	10080 NA	9840 NA	10320 NA	11040 NA	10800 NA	10800 NA	10800 NA	10800 NA	10800 NA	10800 NA	10800 NA
1- 244	PRECIP SUB BK 2 AN	1560 NA	1560 NA	1560 NA	1440 NA	1200 NA	1800 NA	1800 NA	1800 NA	NA NA	1800 NA	1920 NA	2400 NA
1- 260	RAMSEY PUMP ANA	910 435	640 144	350 153	300 139	NA 132	910 198	680 170	1000 229	680 176	660 157	1130 117	340 132
1- 280	CONTINENTAL DR. 1	2568 1061	2304 1326	2304 NA	1920 NA	1824 1079	1728 1077	1680 1047	1872 1068	1824 1135	2016 1189	2496 1334	2616 1484
1- 285	CONTINENTAL DR. 2	4848 3142	4848 3085	4560 3113	1560 NA	3600 2555	3600 2494	3504 2466	3600 2497	3600 2687	4080 2839	4800 3069	5400 3377
1- 291	RENOVA DISTRIBUTION	405 250	423 244	432 272	351 191	486 217	648 429	567 246	711 92	504 179	351 98	342 103	441 133
1- 310	DIVIDE	2160 1219	2160 1000	2160 818	NA NA	864 NA	NA NA	2160 NA	1728 1110	1512 1106	1512 658	1728 621	2160 927
1- 332	HAYES STREET ANA	1010 567	940 479	980 363	990 378	1190 487	840 264	780 399	650 295	750 346	840 437	1470 509	980 488
1- 360	PHILIPSBURG CITY	1104 NA	1219 896	848 602	768 513	720 457	720 447	640 407	720 428	736 482	832 531	992 573	1040 626
1- 380	FOSTER CREEK	900 491	1110 509	1050 513	750 394	750 319	270 256	540 154	570 203	720 220	690 321	810 409	900 837
1- 421	DILLON CITY 4.16 KV	4896 3133	5280 3422	4704 2920	3984 2573	3648 2329	3360 2216	3360 2448	3504 1994	3696 2386	4224 2633	4896 3032	4992 3303
1- 422	DILLON CITY 12.5 KV	2880 1673	2952 1956	3024 1820	2664 1690	3240 1886	3744 2468	4176 2991	3456 2081	2952 1997	3024 2110	3168 2081	3312 2061

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1- 425	DILLON AIRPORT	36	36	36	36	90	567	657	693	243	45	27	36
		14	19	21	18	19	326	475	534	101	26	20	21
1- 430	PNT. OF ROCKS W/BPA	499	567	526	445	445	2052	2160	2160	1836	432	468	468
		326	332	352	287	256	1413	1505	1760	873	276	270	NA
1- 431	BARRETTS W/BPA	696	696	672	552	432	1872	2064	1776	1248	480	576	672
		462	448	464	372	333	1055	1521	1297	755	326	367	452
1- 440	SHERIDAN	1600	1560	1360	NA	1320	1600	1280	1520	1520	1200	1440	1440
		1071	1056	880	883	NA	1127	923	961	928	782	899	1000
1- 451	TWIN BRIDGES	729	846	738	NA	648	765	819	819	657	603	693	720
		NA	NA	NA	NA	315	534	565	550	385	388	441	483
1- 480	WHITEHALL	936	918	846	792	828	882	864	792	738	756	900	936
		581	534	567	493	528	568	675	454	488	505	551	600
1- 500	VIRGINIA CITY	360	342	300	NA	270	420	510	372	330	300	360	360
		182	201	150	142	138	205	218	218	171	152	175	191
1- 530	DELL REA	1008	960	984	864	768	1848	1776	1656	1608	840	888	1008
		674	668	679	571	475	1194	1373	1202	1053	507	592	674
1- 540	DRUMMOND W/BPA	4900	5300	4900	4000	3500	3900	4300	4200	3600	3800	4600	5400
		3306	3306	3395	2604	2278	2708	2989	3075	2449	2444	3042	3710
1- 550	PHILIPSBURG AUTO	1693	1738	1921	1921	686	2242	2242	1372	1418	1418	1418	1052
		603	488	399	NA	NA	NA	NA	719	387	526	661	400
1- 570	BANNACK REA	1728	1728	1488	1032	1152	1032	1032	984	984	1272	1320	1656
		1117	1120	1107	926	723	652	646	653	636	726	933	1100
1- 580	DILLON REA	1776	1968	1872	1536	1680	2736	2976	2928	1920	1440	1584	1776
		1231	1200	1226	959	1010	2016	2257	2040	979	871	1017	1232
1- 590	DIVIDE W/BPA	888	840	768	600	576	888	1056	1080	768	744	816	960
		188	373	NA	414	395	605	671	762	479	433	538	613
1- 592	STONE CREEK W/BPA	NA	NA	NA	NA	480	2112	1752	3360	1008	864	336	768
		NA	NA	NA	NA	27	1487	1139	1277	670	332	117	477
1- 600	SILVER STAR W/BPA	696	720	888	576	696	1176	1200	1248	984	600	648	744
		459	435	445	366	335	792	734	945	524	348	413	497

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1- 611	NEW WHITEHALL W/BPA	744	768	792	600	648	1080	1128	1104	936	648	720	840
		473	461	454	402	396	738	652	823	573	439	431	513
1- 651	CORRA BANK 1 ANA	5520	4000	3360	3200	3200	3200	3120	2960	5600	160	160	160
		2976	2989	1524	1656	2609	2790	2552	1318	583	95	95	95
1- 652	CORRA BANK 3 ANA	1920	1700	1700	2200	1900	2400	2500	1300	1800	2000	2300	1700
		688	883	856	956	807	968	1007	580	839	955	923	885
1- 653	CORRA BANK 5	500	500	700	700	500	600	600	500	700	500	500	500
		317	317	326	303	300	285	306	275	297	214	198	293
1- 661	KELLY COMPRESSOR 1	4800	7100	5000	6000	6100	6200	6200	6500	6100	6000	6200	6200
		763	4288	4457	4134	4226	4071	4223	4371	5110	5292	4813	4985
1- 662	KELLY COMPRESSOR 2	9500	7100	4900	5900	6000	6100	6100	6500	6000	6000	6200	6200
		7342	4275	4445	4261	4065	4006	4185	4354	5132	5340	4921	5083
1- 663	KELLY MINE ANA	4250	3700	3600	3800	3500	3600	3700	3500	3600	3900	3900	4300
		3051	2853	2888	2622	2648	2540	2571	2345	2710	2721	2548	2790
1- 664	ELEC FURN 1 ANA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12960	14400	12960
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1- 665	ELEC. FURN. 2 ANA	7200	25920	31680	16992	27360	29376	28800	27936	28800	13536	14400	12960
		NA	10029	8229	10714	7371	13662	14120	12538	16191	9486	9287	NA

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2- 100	MISSION ROAD	2574 1555	2484 1646	2124 1386	1872 1251	NA NA	1836 1218	1944 1293	1692 1138	1800 1412	1908 1360	2412 1618	2556 1729
2- 101	ADEL (CASCADE)	126 NA	150 40	138 73	120 56	NA NA	87 49	90 49	102 48	108 47	114 55	126 57	120 57
2- 131	CITY SUB - NO. BANK	NA NA	9936 5250	7668 4935	7344 4500	7884 4359	8856 4500	8964 5183	8856 2605	8532 4640	8100 4755	8100 4751	7776 4741
2- 132	CITY SUB - SO. BANK	11664 9619	10368 6630	10368 7365	9180 6630	11124 6834	10908 6795	11556 7572	11448 7377	11448 6905	9720 6990	14040 8113	14472 8952
2- 133	NORTHWEST NO. 1	8640 5807	7920 5429	7920 5380	6480 4720	7200 4594	7200 4480	7920 4924	7200 5018	4320 2710	4176 2940	5328 3318	5472 3879
2- 134	NORTHWEST NO. 2	3024 3750	5184 3462	5472 3380	4032 2720	3600 2531	4032 2580	4608 2876	4320 2891	7200 4572	6480 4800	7920 4235	5760 3986
2- 141	EAST SIDE SO. BANK	NA NA	6048 4067	5940 3840	4860 3285	4644 3108	5076 3060	5724 3429	5400 3409	5292 3460	4968 3000	6264 4235	6372 3954
2- 142	EAST SIDE NO. BANK	11016 6450	8424 4335	8424 4875	10584 3990	5508 3642	5832 3600	6264 3771	6156 3736	6264 3972	11880 4365	12960 4897	9180 5239
2- 150	SOUTH SIDE E. BANK	10080 8192	10176 5753	9216 6407	8256 5793	8928 5656	10464 5887	10800 6766	10560 6636	10416 6386	9072 6307	10032 6482	10080 6779
2- 151	SOUTH SIDE W. BANK	NA NA	4896 3422	5040 3210	4032 2560	3744 2391	4176 2380	4176 2834	3888 2764	3744 NA	4176 NA	5544 3326	5544 3782
2- 160	WAYNE PUMP (FIFE)	456 365	432 374	432 323	432 307	432 291	432 310	336 216	456 324	432 324	432 332	408 311	504 465
2- 170	RAYNESFORD PUMP	1824 1200	1920 1302	1280 1037	1312 892	1216 1095	1280 968	1280 938	1664 1126	1824 1415	1664 1148	1312 1075	1280 1082
2- 180	MONARCH VALLEY	672 403	672 411	612 383	510 320	504 NA	492 327	480 281	492 377	558 324	576 373	684 428	780 468
2- 191	KINGS HILL OLD T-BA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2- 220	HAVRE HIGHLAND PARK	4800 2921	4176 2561	4128 2625	3456 2232	3720 2224	4200 2020	4920 2619	4536 2403	4416 2169	3696 2390	4512 2613	5460 2730

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2- 240	SACO ALFALFA	160 19	160 13	160 18	136 9	120 2	200 18	200 127	704 22	208 59	150 17	144 27	166 42
2- 261	VAUGHN	1056 750	960 585	996 631	804 485	756 468	888 450	1044 647	1032 574	840 497	804 538	1008 649	1176 750
2- 280	TREASURE STATE IND.	192 151	168 103	198 107	150 81	144 73	120 66	108 59	120 69	108 65	144 79	192 104	186 114
2- 290	PAPIN GRAVEL	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2- 300	ASHUELOT W/BR	3276 2162	2952 1715	3420 2089	2376 1464	2682 1275	2016 1384	2826 1911	2664 1830	1872 1222	2016 1270	1854 1461	2880 1798
2- 310	FORT SHAW W/BR	2088 1409	1872 1118	2064 1346	1488 1005	1224 890	1416 966	1512 1053	1356 1030	1344 876	1440 932	1248 1055	1872 1258
2- 311	FAIRFIELD	1104 626	1104 630	1168 594	1040 526	880 489	848 489	832 488	912 503	944 530	944 548	992 583	1024 621
2- 312	FAIRFIELD - AUGSTA	594 335	552 336	576 335	564 379	480 207	504 333	576 348	468 298	480 304	504 306	600 324	576 338
2- 320	FAIRFIELD W/BR	1548 1106	1440 940	1548 1138	1224 883	1368 763	1404 1006	1836 1287	1944 1218	1260 873	1188 835	1332 919	1656 1040
2- 330	BOLE	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2- 340	CHOTEAU	1920 1071	1728 1023	1776 983	1536 877	1344 825	1392 841	1392 910	1272 869	1344 893	1440 906	1728 990	1776 1097
2- 341	CHOTEAU 12.5	840 414	768 407	840 393	720 340	840 227	840 332	720 421	912 291	720 337	720 347	840 397	840 447
2- 350	PENDROY W/BR	1800 1321	1608 1053	1848 1288	1416 1026	1308 915	1392 1045	1620 1097	1644 1167	1296 932	1296 968	1440 1006	1716 1137
2- 360	PONDERA OIL FIELD	384 358	392 367	400 353	352 337	360 331	360 219	360 NA	376 350	376 337	376 352	400 351	448 357
2- 370	CONRAD PUMP	NA 9	NA 7	NA 6	NA 7	NA 4	NA 4	NA 4	NA 4	NA 4	NA 4	NA 7	NA 7

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2- 380	CONRAD CITY	3912	3504	3456	2976	2832	2832	2952	3024	3000	3120	3744	3888
		NA	NA	2032	1962	1866	1823	1922	1963	1997	2145	2360	2567
2- 390	BRADY	624	624	600	528	480	456	432	408	456	528	600	576
		420	419	394	348	320	320	291	300	319	359	400	412
2- 400	BRADY W/BR	1608	1440	1512	1344	1320	1656	1968	1560	1392	1512	1392	1512
		1404	1278	1170	1127	1060	1215	1292	1220	1023	1130	1152	1210
2- 410	DUTTON	1170	1044	1116	936	864	846	792	828	810	882	810	1071
		688	719	684	628	586	566	570	575	576	620	654	715
2- 420	DUTTON PUMP	480	240	576	NA	NA	192	NA	192	240	240	240	192
		200	207	188	NA	NA	129	NA	NA	193	200	200	188
2- 430	POWER	276	276	1488	252	240	780	756	216	288	276	300	240
		170	183	1266	NA	142	593	677	132	147	158	167	188
2- 440	CARTER	336	426	456	342	312	324	336	384	378	348	420	456
		247	251	242	195	169	153	199	195	189	194	234	264
2- 450	FORT BENTON	3072	3136	2944	2880	2816	2880	2944	3008	2560	2880	3072	3264
		2302	2124	2026	NA	804	1444	1929	2080	1778	1677	2116	2392
2- 459	HOLTZ PUMP	NA	NA	NA	NA	470	490	499	NA	485	NA	NA	NA
		NA	NA	NA	NA	NA	27	154	NA	41	NA	NA	NA
2- 460	PORTAGE	396	468	504	414	396	432	432	396	414	414	450	504
		310	314	306	278	255	236	294	266	255	275	293	327
2- 480	LOMA	162	144	162	120	180	150	186	204	180	174	162	246
		96	83	90	65	100	60	102	113	103	75	99	88
2- 490	SO. VIRGELLE W/BR	302	288	317	250	250	422	259	394	374	221	254	326
		275	158	207	141	135	174	121	201	174	104	148	177
2- 500	BIG SANDY	1536	1272	1248	960	960	960	1008	960	1008	1200	1440	1488
		871	790	759	626	594	582	600	594	619	728	853	961
2- 511	BOX ELDER	672	696	660	618	504	360	504	516	528	522	636	612
		445	408	377	312	325	206	309	308	310	322	380	442
2- 520	GOOSEBILL REA W/BR	336	264	360	250	259	187	274	274	230	259	269	307
		194	NA	NA	134	124	110	114	163	132	131	151	176

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2- 530	CHESTER	1680 1184	1464 1086	1392 1168	1488 1019	1464 955	2160 1090	1896 1110	1680 1181	1368 1052	1440 1003	1920 1175	1752 1295
2- 540	JOPLIN	330 169	288 154	300 162	222 127	216 106	192 118	240 124	240 127	264 131	264 151	336 180	360 203
2- 550	INVERNESS	259 133	245 121	223 124	216 99	191 86	191 97	205 95	198 100	241 103	198 106	230 114	216 126
2- 560	RUDYARD	600 329	600 314	600 331	480 267	432 239	360 218	456 248	456 248	432 252	492 270	576 306	600 355
2- 570	HINGHAM	448 269	436 252	480 265	400 211	340 195	356 180	416 205	432 242	444 222	320 207	408 240	448 287
2- 580	GILFORD	320 180	285 165	304 173	240 140	214 128	224 123	314 152	304 163	272 142	240 145	301 164	301 189
2- 590	KREMLIN	140 81	118 72	126 75	124 59	102 63	88 52	110 65	118 71	118 67	110 68	136 73	136 87
2- 591	KREMLIN W/BR	576 389	288 192	312 218	252 148	240 147	204 135	252 152	312 200	288 148	240 143	288 187	372 223
2- 600	HAVRE CITY	7560 4966	7200 4464	6960 4672	7380 3960	7080 3949	7380 4000	7920 4676	6780 4641	7800 4181	6900 4217	6960 4703	7380 4958
2- 601	HAVRE E. BANK NO. 1	1872 791	1008 696	1656 736	1656 644	1440 710	1152 657	1440 830	1296 844	1296 745	1116 735	2376 811	1512 880
2- 602	HAVRE W. BANK NO. 3	1440 874	1044 680	1764 773	1836 673	1260 750	1332 688	1620 879	1764 881	1692 781	1332 775	2664 848	1764 920
2- 630	LOHMAN	450 267	360 233	420 227	300 181	660 343	540 211	672 403	600 277	408 227	300 185	426 217	420 257
2- 640	LOHMAN REA	1275 725	1230 700	1320 718	1050 601	1500 801	1380 594	1590 767	1560 729	1200 610	1050 540	1200 642	1260 688
2- 650	CHINOOK	2240 1351	1664 1040	1600 972	1280 800	960 629	800 556	2080 1090	1952 1265	1728 1120	1728 1222	2176 1360	2400 1502
2- 651	NO. CHINOOK W/BR	252 191	216 142	222 155	186 117	204 136	312 165	216 108	264 152	204 109	150 98	192 111	246 161

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2- 660	ZURICH	336 141	276 150	288 185	246 143	NA NA	348 180	324 182	288 165	228 130	252 143	264 157	276 184
2- 665	MOHAR W/BR	61 44	58 40	60 37	54 29	48 20	37 14	33 13	33 13	42 15	57 17	57 34	81 45
2- 670	HARLEM	2240 459	1888 113	1888 1138	1440 1014	NA NA	1616 1068	1824 1181	1664 1073	1632 1080	1632 1012	2176 1463	NA NA
2- 681	HARLEM REA W/BR	1200 863	1020 713	1104 859	864 NA	960 585	840 590	756 450	636 557	888 502	960 103	984 656	864 810
2- 682	NO. HARLEM W/BR	86 56	89 51	86 52	84 37	77 34	120 44	52 15	55 18	55 17	53 12	50 17	50 22
2- 690	DODSON	504 267	456 253	450 241	354 187	NA NA	360 206	396 206	468 206	348 195	360 173	432 252	468 271
2- 700	WAGNER	180 NA	180 161	180 154	180 102	99 91	135 85	153 91	135 83	135 82	135 94	225 135	243 176
2- 710	MALTA	3200 2036	2720 1760	2880 1686	2400 1483	2400 1563	2400 1529	3136 1796	3040 1773	2560 1573	2400 1609	3360 1884	3200 2125
2- 712	MALTA EAST RURAL	144 79	180 106	156 94	156 73	372 151	336 97	282 133	288 103	276 96	216 90	144 95	168 115
2- 720	SACO W/BR	605 439	533 342	528 397	408 265	413 234	394 226	374 194	403 235	408 209	374 210	446 279	533 331
2- 730	SACO	336 241	320 208	336 196	256 155	288 149	240 144	272 169	320 169	256 161	288 162	320 191	368 219
2- 740	HINSDALE W/BR	738 515	618 399	606 456	462 281	576 295	774 319	324 202	510 378	504 291	534 284	528 335	660 432
2- 750	HINSDALE TOWN	420 249	372 221	372 220	372 178	504 243	288 178	348 200	480 215	300 181	336 198	396 237	432 265
2- 760	TAMPICO	32 22	28 18	20 15	14 13	12 11	12 10	16 12	16 11	NA 10	16 11	28 18	36 24
2- 780	GLASGOW WEST SIDE	3360 2035	2472 1881	2760 1754	2280 1536	2640 1613	3000 1653	3360 1900	3600 1948	3600 1641	2520 1635	3360 1881	3240 2103

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2- 790	GLASGOW EAST SIDE	3600	3168	2976	2352	2304	2496	2736	2928	2640	2640	3312	3504
		2229	2070	1944	1629	1555	1543	1663	1740	1623	1745	2077	2248
2- 810	GLASGOW AFB	3456	3672	3672	3024	3384	2376	2376	NA	2232	2520	2736	2736
		2625	2486	2350	1906	1659	1456	1373	1334	NA	1587	1810	1909
2- 850	NASHUA	672	624	592	480	464	432	592	576	496	464	608	624
		374	344	305	252	257	221	265	284	258	280	316	380
2- 880	FIFE	192	168	180	66	144	144	156	216	168	168	168	156
		NA	NA	NA	NA	94	63	97	102	94	103	98	115
2- 890	NORTHERN MATERIAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2- 921	ULM 25 KV	1200	1200	1000	1200	1400	1200	1400	1600	1200	1000	1000	1200
		738	769	639	598	677	572	1040	717	448	633	701	738
2- 950	STOCKETT	1020	1080	1080	1260	900	660	720	NA	NA	NA	NA	NA
		729	735	711	593	575	527	159	NA	NA	NA	NA	NA
2- 960	BELT	1760	1760	1696	1536	1184	1200	1152	1216	1312	1440	1728	2016
		NA	NA	955	809	754	733	754	756	784	888	1013	1209
2- 970	ARMINGTON W/BR	218	209	214	187	223	170	182	170	228	178	190	226
		146	134	126	110	107	103	104	101	126	99	86	135
2-1020	BLACK EAGLE	10500	11200	9660	8680	8820	8540	8960	8680	8260	8960	10080	12600
		NA	NA	7194	6553	6022	6164	6605	6586	6883	7094	7350	7772
2-1026	PHILIPS REFINERY	2010	1970	1980	1980	1970	2000	NA	2150	2080	2030	2040	2720
		1895	1832	1918	1828	1786	1963	NA	1971	1450	1908	1911	1931
2-1029	MORONY RURAL	NA	1332	1431	1062	972	513	1125	882	882	1008	1278	1296
		NA	NA	836	615	507	506	536	535	518	607	748	844
2-1030	HIGHWOOD REA	NA	900	960	738	672	684	582	744	720	744	876	942
		NA	NA	557	457	394	406	440	454	421	451	527	596
2-1040	WAGNER W/BR	2016	1800	1896	1464	1464	1056	1056	1200	1200	1284	1656	1992
		1482	1163	1363	960	867	768	692	785	744	783	1037	1327
2-1090	CUTBANK PUMP	2100	2050	2050	2000	2000	2100	1850	1950	2100	2000	2050	2050
		1652	1970	1701	1628	1632	1667	1522	1558	1539	1707	1689	1682

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2-1221	NO. CONRAD W/BR	852 604	786 500	936 627	672 435	624 430	1392 710	1884 1134	1680 1130	1020 469	1080 643	969 492	816 532
2-1222	SO. VALIER W/BR	756 502	684 405	768 507	576 394	756 335	696 379	1164 648	1188 753	564 312	792 416	600 346	672 430
2-1320	BIG SANDY REA	864 507	774 445	810 490	576 360	540 323	486 317	576 344	648 365	576 346	612 346	756 426	756 506
2-1330	CONRAD 24 KV LINE	2736 1877	2544 1930	2544 1803	2256 1641	2112 1594	2544 1803	2736 1341	1344 523	672 333	960 348	672 390	1728 443
2-1351	VALIER-WILLIAMS	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1600 NA	1800 1061	1800 1239	2000 1321	2000 1308	2000 1300
2-1360	MALMSTROM AFB	NA NA	NA NA	NA NA	5904 NA	5688 3880	5364 3745	5652 3856	3240 1807	5832 3924	5652 4135	5904 4350	6372 NA
2-1970	STEVENS PUMP	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	360 141	360 38	120 NA	72 NA	NA NA	NA NA
2-2010	HOPP ILLIAD W/BR	1194 343	444 273	528 348	372 247	630 303	774 427	840 346	828 472	756 398	492 287	384 264	468 300
2-2020	LAREDO(RKYBOY) W/BR	2556 711	1248 598	2280 720	792 473	696 412	588 360	624 329	576 348	636 318	768 402	936 553	1032 665

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3- 110	ANDERSON	NA NA	NA NA	NA NA	NA NA	9 5	9 3	9 4	10 4	10 3	8 3	14 4	10 5
3- 120	BROADVIEW	720 438	708 437	708 411	600 347	528 331	480 283	540 336	540 333	480 290	552 345	720 407	636 428
3- 125	JENSEN	30 12	30 14	30 14	33 12	99 13	120 25	120 56	120 34	105 34	21 6	30 9	30 10
3- 130	IVANHOE NO. 1	1728 853	1728 893	1680 823	1728 779	1680 741	1776 637	1488 552	912 673	864 613	864 723	912 680	912 797
3- 140	LITTLE WALL NO. 2	192 25	128 81	144 77	160 98	160 70	144 74	231 46	90 38	90 58	105 56	120 70	120 70
3- 150	WILLOW CREEK NO. 3	192 117	204 119	228 108	240 112	216 106	192 90	264 90	264 135	276 110	288 134	288 120	336 145
3- 160	ROUNDUP NO. 4	816 373	816 393	816 329	768 369	816 300	816 340	720 293	720 312	720 263	720 332	720 317	720 340
3- 170	CUSHMAN	NA NA	NA NA	NA NA	78 39	120 47	90 42	96 46	90 42	78 34	78 40	96 51	90 53
3- 180	GAGE	1116 839	1104 869	1104 820	984 796	1020 761	1080 758	1020 685	864 773	900 742	960 768	1008 770	1032 850
3- 190	IVANHOE	840 532	840 522	1200 516	960 497	720 469	720 450	720 366	960 479	1080 777	1080 842	1200 850	1080 833
3- 195	KEEFER - EKLUND	NA 2	NA 1	NA 2	NA 2	NA NA	NA NA	NA 3	12 2	NA NA	NA NA	NA NA	NA NA
3- 200	LAVINA	422 238	384 233	384 219	365 195	317 174	288 168	384 210	374 196	336 168	336 196	528 245	432 257
3- 210	LAVINA (FERGUS REA)	90 51	90 46	84 47	60 31	60 27	36 20	39 19	39 18	45 18	51 23	78 31	90 45
3- 220	MELSTONE	720 399	600 365	660 345	480 286	420 247	540 230	600 340	600 320	420 247	480 290	600 348	660 395
3- 230	MOUNTAIN STATES MIN	189 158	189 161	189 138	180 148	189 150	180 137	171 39	171 126	189 139	189 145	270 224	279 226

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3- 240	MUSSELSHELL	468 285	414 272	450 250	450 191	450 161	252 155	252 168	234 160	216 150	306 190	414 251	396 283
3- 245	M.V. FEEDLOT	60 55	60 NA	60 47	32 18	20 12	20 9	18 8	160 7	160 6	36 9	76 38	100 70
3- 250	ROUNDUP	4800 2921	4920 2963	4680 2755	3960 2210	3600 1947	3480 1987	3600 2003	3480 2115	3840 2113	3960 2387	4080 2593	3840 2540
3- 260	ROUNDUP-FERGUS REA	5120 3414	4640 3235	3920 3118	3680 2391	2960 2219	3280 2078	3280 2241	2800 2111	4080 1978	3840 2505	5200 3067	4800 3367
3- 270	ROUNDUP-MCCONE REA	1284 969	1183 915	1048 861	1014 716	1014 711	929 639	2231 739	946 676	1014 665	1115 737	1453 838	1453 930
3- 280	RYEGATE	512 274	480 265	480 262	440 215	424 209	432 221	440 241	440 232	360 210	400 226	464 254	456 271
3- 290	RYEGATE-FERGUS REA	NA NA	NA NA	360 212	270 164	390 224	480 133	450 246	420 173	414 156	330 133	300 179	450 242
3- 300	SUMATRA	3840 3400.	3840 3407	4032 3535	3840 3448	4032 3438	4032 3440	4032 3393	4032 3491	3648 3240	3840 3458	3840 3507	4032 3573
3- 330	CLARK RANCH	36 18	36 17	36 18	30 15	29 13	41 14	32 17	34 14	30 13	39 14	38 17	37 19
3- 332	SARPY AUTO SUB	5320 2015	4900 2582	4900 2785	4550 2092	4200 1923	4900 1410	4550 2172	4760 1962	4760 1954	4970 2267	5180 2732	4970 2518
3- 339	COLST.SW.YD. #1	NA NA	4680 NA	2520 658	3240 1655	3240 731	1800 740	2160 1169	2160 1118	2304 1450	3600 1897	4320 2540	4608 2960
3- 340	COLSTRIP SWYD #2	NA NA	3312 NA	3960 1606	2520 NA	2160 506	2160 320	360 21	72 27	NA NA	720 194	720 150	720 10
3- 350	COLSTRIP (SHOP)	630 152	330 90	390 77	300 48	210 49	210 43	90 47	90 45	90 44	90 61	90 80	108 68
3- 352	W.E. ARMELLS CR.#1	5040 3036	4680 3078	5760 3077	6480 3217	6840 3731	6480 3670	5760 2586	6480 2555	4320 2070	4320 2681	5040 2460	4320 2620
3- 353	W.E. ARMELLS CR.#2	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	3168 NA	7272 2032	3240 1690	3168 1520

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3- 360	COLSTRIP (NO. 6-C)	1360	1440	1440	1360	1360	1360	1040	960	1360	1040	1184	1200
		277	659	447	462	442	NA	NA	238	182	NA	189	269
3- 370	COLSTRIP (PEABODY)	2310	2450	2450	2310	2170	2170	2100	2100	2100	3500	2590	2625
		915	1080	1007	986	834	739	548	765	783	1007	1069	1021
3- 371	NICHOLS PUMP	3456	3456	3456	3744	3456	4320	4320	4320	4320	4320	3456	3312
		1673	1756	2013	1924	1688	1340	186	491	2100	1877	2280	3040
3- 374	NICHOLS PUMP #2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3- 380	DRINGMAN	72	63	63	41	34	31	27	27	41	52	63	67
		35	32	29	16	11	13	13	12	11	20	31	35
3- 390	FARLEY RANCH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3- 400	GREER	NA	NA	NA	NA	NA	NA	23	30	27	28	30	28
		NA	NA	NA	NA	NA	NA	12	26	26	24	24	23
3- 410	HARDIN	3216	2952	2640	2640	2400	3120	3480	3240	3144	2880	3120	3144
		2019	2011	1824	1759	1675	1787	2034	2118	1823	1816	1983	2163
3- 420	HARDIN FEED MILL	360	300	360	255	390	375	378	393	396	390	462	480
		61	54	45	21	25	76	113	93	110	110	118	95
3- 430	HARDIN ROAD	948	930	852	636	510	570	582	600	600	762	1362	936
		536	521	464	384	352	359	410	399	374	437	601	689
3- 431	LOCKWOOD REA	1899	1881	1746	1305	1098	1224	1422	1341	1377	1422	1782	1755
		1119	1092	986	811	735	754	912	864	803	877	1046	1124
3- 436	SCHAAK REA	516	408	420	348	156	96	150	114	246	156	300	372
		261	227	210	134	91	83	90	87	103	98	118	148
3- 437	PRYOR (FARLEY)	NA	NA	2	NA	NA	43	2	NA	2	14	18	6
		NA	NA	1	NA	NA	NA	NA	NA	NA	1	1	NA
3- 440	HARDIN-BIG HORN REA	3080	2800	2800	2240	2520	2520	2520	2520	2520	2380	2520	2940
		2013	1769	1793	1487	1167	1477	1649	1750	1637	1497	1672	1957
3- 450	PRYOR (Y. VAL. REA)	1260	1620	1224	828	630	648	459	630	630	792	1080	990
		708	693	641	515	432	406	323	405	415	513	755	568

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3- 460	TONGUE RIVER REA	7682 4901	6880 4530	6880 4307	5389 3530	4701 3150	5274 3042	5160 3567	5160 3525	4816 3352	5733 3899	7224 4547	7224 4953
3- 470	TULLOCK CREEK	22 13	19 10	18 9	15 7	15 6	13 6	15 8	15 7	15 7	15 7	19 9	21 11
3- 480	YELLOWTAIL (BGHORN)	1368 774	1152 NA	1248 793	1056 622	936 580	1128 669	1056 552	888 448	816 300	576 227	576 290	624 381
3- 490	BILLINGS RIMROCK	10080 6273	9936 6256	9072 NA	8136 3890	5184 3525	6480 3650	7416 4603	6624 4155	6552 3920	6264 4103	7632 4580	7920 4730
3- 510	BILLINGS STM. PLT.	1664 1253	1568 1160	1344 1037	1504 989	1568 1025	2272 1093	4800 1853	2304 1422	1728 818	1056 632	1056 698	1376 693
3- 511	STM PLT #1	NA NA	NA NA	NA NA	1080 NA	1440 863	1800 830	1872 1066	2016 1027	3672 1060	4752 3987	5256 4430	5328 4650
3- 512	STM PLT #2	NA NA	NA NA	NA NA	432 10	720 NA	72 10	72 21	432 27	504 350	648 426	792 580	1080 610
3- 520	BLGS CITY SUB NO. 1	1920 1024	1920 1067	2016 1035	2160 1034	2304 1053	2544 1217	2784 1507	2688 1433	2664 1227	2880 1087	2112 1100	2064 1130
3- 530	BLGS CITY SUB NO. 2	2400 1406	2400 1448	2400 1406	2688 1431	3024 1488	3456 1647	3768 1966	3528 1921	3456 1650	2952 1513	2616 1550	3600 1527
3- 540	BLGS CITY SUB NO. 3	1584 800	1536 722	1272 645	1368 603	1536 628	1584 743	1800 921	1992 867	1632 613	1512 687	1512 760	1296 680
3- 550	BLGS CITY SUB NO. 4	3168 2461	3168 2363	3168 2129	2784 1834	2736 1719	2832 1840	2784 2131	2784 2018	2736 1847	2736 1897	3024 2547	2976 2820
3- 551	BLGS CITY SUB NO. 5	4320 2721	4080 2778	4080 2632	3840 2503	4128 2481	4800 2693	4800 3007	4464 2897	4512 2647	3456 2581	4080 2693	4176 2720
3- 580	BLGS EAST SIDE 4.16	6240 3818	6240 3785	5280 3135	4608 2614	4368 2413	4848 2633	5232 2979	4896 2873	5040 2580	4656 2381	3984 2053	3312 2013
3- 584	BLGS EAST SIDE #3	3840 1309	2880 1244	1920 1084	4512 2634	5760 2488	4896 2680	6240 3434	5760 3455	5088 2813	4320 2723	4800 3053	5184 3533
3- 585	BLGS EAST SIDE #4	2880 1760	2880 2048	3840 1961	6720 2414	4032 2538	4320 2840	4896 3090	4512 3018	4320 3000	4896 3239	4896 3573	5088 3520

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3- 591	BLNGS CONT. REF. 1	9792	5544	5328	5256	NA	NA	9000	10440	10224	5328	5256	7416
		4609	4733	4461	4614	4397	4900	4924	4891	4790	3503	4290	4590
3- 592	BLNGS CONT. REF. 2	5040	5040	5040	5256	5760	5400	5688	5472	10152	5328	5256	5184
		4564	4722	4442	4603	4397	4900	4903	4873	4840	3494	4280	4560
3- 600	BILLINGS CONT. PIPE	760	780	780	800	840	800	880	840	880	880	880	660
		556	565	495	356	405	656	92	396	392	481	411	417
3- 604	BLGS SEWAGE #1	NA	NA	NA	360	1008	1584	1200	1416	408	NA	NA	1200
		NA	NA	NA	NA	428	847	959	300	NA	NA	NA	1176
3- 605	BLGS SEWAGE #2	360	NA	792	480	672	288	NA	1344	1392	1584	1296	1296
		145	NA	339	62	NA	13	NA	642	973	1271	1153	1152
3- 610	BLGS HUMBLE NO. 1	6080	6160	8640	6160	5520	6080	6480	6400	6480	5920	5600	8000
		5497	5229	5205	4949	4058	4964	5496	5371	4994	4988	4451	5218
3- 620	BLGS HUMBLE NO. 2	6800	6560	9680	6880	5920	6960	6800	8560	7200	6800	6480	9440
		6381	6119	6226	6051	5012	6059	6524	6418	6003	6020	5553	6353
3- 630	BLGS HUMBLE NO. 3	6720	6400	6560	6720	6400	6800	6720	8400	7040	6560	6320	6640
		6141	5887	5971	5830	4942	5823	6258	6158	5773	5792	5347	6025
3- 640	BILLINGS SEMINOE	3216	3120	3216	3168	3120	3072	3312	3264	3264	3168	3072	3072
		2219	2444	2400	2276	2025	2453	2669	2582	2487	1929	2133	2060
3- 650	HUNTLEY - YEL. VAL.	5709	5209	4917	3584	2792	2917	3084	3042	3042	3750	5542	5417
		3283	3100	2834	2167	1785	1713	2024	1952	1719	2162	3143	3606
3- 660	BLGS BELLROCK 1	8640	8136	7416	7560	7920	10656	10800	10080	9072	7560	9648	9720
		5627	5678	5371	5028	5128	5790	7097	6264	5510	5371	5760	6180
3- 670	BILLINGS BELLROCK 2	9000	7560	7056	6480	5760	6984	8784	8640	9144	6552	7920	8856
		4536	4533	4219	3910	3684	3550	5121	4536	4160	4200	4620	5000
3- 680	BILLINGS 8TH WEST 1	12600	12096	11928	9912	9744	11760	17136	12432	12096	13608	12432	12432
		7636	7804	7655	6903	6563	7047	9197	8167	7327	7632	7957	8377
3- 690	BILLINGS 8TH WEST 2	13272	11256	10752	10248	10416	12264	13776	11928	11256	9240	10584	10752
		7021	6611	6413	6083	5994	6417	7579	6512	5763	5690	6090	5927
3- 691	BILLINGS 8TH WEST 3	13440	14280	13608	12264	12768	14952	18648	17136	16632	13272	15792	16800
		9121	9567	9213	8497	8138	8773	10500	10755	9730	9326	10290	11293

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3- 695	KING AVE	SUB. NOT IN SERVICE IN 1976											
3- 700	ABSAROKEE	660 386	660 376	540 355	480 312	480 300	450 294	480 337	480 325	510 325	510 336	720 389	720 446
3- 710	ABSAROKEE REA	1098 624	1080 660	1215 671	1008 531	648 391	720 399	648 393	612 392	648 389	810 484	1098 594	1062 668
3- 720	CHROME JCT.	4 3	5 3	4 3	5 2	5 2	5 2	6 1	4 NA	5 2	4 2	6 2	6 3
3- 730	COLUMBUS	2240 1073	2000 1022	1840 981	1600 851	1600 794	1760 820	1840 952	1840 905	1840 880	1680 942	1920 1020	1920 1091
3- 740	COLUMBUS (B.T. REA)	1368 659	1287 713	1188 663	936 517	720 449	720 441	720 464	702 441	612 444	774 509	1080 626	1170 696
3- 750	COLUMBUS-CATTLFLD	108 50	140 47	128 45	132 41	104 35	88 25	72 20	76 19	72 16	112 22	140 33	136 43
3- 770	COLUMBUS-HCLMGREN	NA NA	NA NA	NA NA	NA NA	NA NA	88 6	12 9	40 6	20 1	NA 1	NA NA	NA NA
3- 780	COL-PIERCE RANCH	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	36 11	36 13	NA NA	NA NA	NA NA	NA NA
3- 790	COL-PIERCE-GODDARD	NA 1	NA 3	NA 2	NA 3	15 1	15 2	94 42	27 3	18 5	NA 3	NA 3	NA 4
3- 795	COLUMBUS PUMP	1152 743	1152 760	1216 740	1152 648	1088 729	1216 711	1088 745	1152 752	1088 769	1152 585	1920 947	1792 1160
3- 800	LAUREL EAST BANK	4896 3030	4560 3000	4320 2810	3720 2476	3384 2347	3840 2387	4200 2869	3960 2679	3960 2547	3840 2977	4704 2670	4896 3177
3- 820	LAUREL N.P.	440 183	440 210	420 199	420 187	440 165	380 154	360 138	380 143	400 166	420 191	460 233	480 281
3- 825	LAUREL PUMP	NA 9	NA 4	NA NA	NA 7	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
3- 840	LAUREL-CENEX	6400 5480	7000 NA	6400 5672	7700 6178	8000 5768	7800 6764	8000 7198	8200 7260	8200 7222	8100 7312	8000 7056	8000 6931

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3- 850	MOSSMAIN (Y.V. REA)	3006 1668	2880 1619	2610 1498	1890 1206	1755 1100	1998 1163	2403 1563	2106 1309	1998 1151	2025 1310	2727 1643	2970 1898
3- 851	P.V. SUB	NA NA	NA NA	NA NA	258 91	270 80	264 86	156 98	276 95	240 90	NA 106	438 192	426 208
3- 860	NYE (B.T. REA)	540 326	540 328	504 313	360 214	384 205	396 215	408 219	360 223	408 213	480 247	552 302	540 333
3- 861	BUFFALO JUMP	11 6	11 NA	11 2	11 2	11 4	9 3	11 3	11 3	11 4	11 4	14 4	13 4
3- 862	DELGER	NA NA	6 NA	NA NA	7 NA	8 NA	10 NA	6 1	6 1	10 NA	17 NA	18 1	NA NA
3- 870	PARK CITY	528 278	480 262	440 244	368 213	296 201	336 206	520 331	544 282	424 236	368 234	496 280	496 301
3- 880	PARK CITY-Y.V. REA	1152 693	1080 654	984 618	864 490	864 441	888 550	1176 819	1152 783	1080 558	864 519	1104 622	1128 708
3- 890	REED POINT	294 178	276 165	276 163	240 180	222 85	222 125	228 135	234 133	216 130	240 148	300 181	300 187
3- 900	REED POINT-B.T. REA	420 214	396 201	420 193	324 148	222 129	228 130	192 122	186 114	204 117	240 140	402 184	372 199
3- 910	REED POINT - FAW	38 5	44 6	44 6	96 5	NA NA	140 3	144 10	148 12	36 4	48 4	40 4	48 5
3- 920	BEAR CREEK	90 52	90 45	78 49	84 41	72 34	60 43	66 38	72 38	72 38	84 41	90 47	84 49
3- 930	BRIDGER	540 444	585 440	495 414	540 363	540 376	675 442	810 590	855 550	540 458	540 417	630 464	675 515
3- 935	BRIDGER-CHANCE	2484 1252	1170 NA	1620 1125	1350 931	1440 1030	1530 1103	1800 1319	1530 1136	1440 1073	1440 953	1530 1095	1800 1253
3- 940	BRIDGER PUMP	NA NA	NA NA	NA NA	NA NA	NA NA	NA 22	NA NA	NA 16	NA NA	NA NA	NA NA	NA NA
3- 942	BRIDGER-NEWMONT	NA NA	NA NA	NA NA	NA NA	NA NA	270 53	180 NA	180 80	NA 11	NA NA	NA NA	NA NA

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3- 950	DRY CREEK	162	150	162	168	150	156	138	141	168	156	138	144
		83	79	88	91	102	37	106	140	100	72	73	87
3- 955	EAST ROSEBUD	66	52	72	46	66	41	90	98	108	97	96	60
		32	26	31	22	23	25	62	52	35	32	40	37
3- 960	EAST ROSEBUD REA	18	22	16	17	82	70	90	127	104	105	36	36
		7	6	7	6	11	20	33	42	15	7	8	8
3- 970	EDGAR-B.T. REA	1464	1368	1248	960	960	1128	1200	1104	840	918	1278	1242
		889	844	829	624	564	672	828	639	440	600	784	71
3- 975	ROCKVALE	780	810	720	540	480	570	600	540	600	960	690	780
		640	401	368	291	263	273	329	267	360	359	391	NA
3- 980	FROMBERG	1260	1215	1080	810	720	990	1170	1125	1080	900	1170	1170
		486	675	625	387	629	521	746	657	570	463	663	NA
3-1010	RED LODGE	3240	2520	2220	1740	1560	1620	1680	1440	1500	1800	2520	2520
		1511	1469	1377	1129	977	1020	1069	1018	1023	1166	1387	1538
3-1015	LUTHER - B.T. REA	345	330	345	321	252	204	183	222	225	279	384	375
		190	184	181	159	139	133	126	127	124	156	193	210
3-1020	RD LDG GRIZZLY PK.	474	420	450	360	102	54	36	60	36	96	192	222
		196	158	149	87	32	18	9	10	11	44	72	83
3-1030	RED LODGE-B.T. REA	1368	1224	1392	1260	666	834	948	744	570	876	1116	1092
		711	657	607	440	362	423	606	323	343	465	587	975

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
4- 13	HARLOWTON DIST.	2040 1123	1872 1157	1800 1068	1776 1103	1248 827	1344 900	1416 981	1464 979	1440 1090	1584 925	1968 1145	1968 1213
4- 21	TWO DOT	NA NA	NA NA	NA NA	NA NA	510 238	390 381	630 350	360 274	390 260	516 338	660 363	660 375
4- 40	UTICA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4- 120	HARLOWTON REA	582 447	762 350	780 468	672 283	396 210	384 237	288 181	330 177	390 220	492 184	564 270	738 403
4- 130	WINNECOOK K-6	27 25	27 24	26 19	29 22	30 22	29 15	29 22	25 18	26 23	27 16	29 19	26 24
4- 131	BOULEVARD	5376 3348	5136 3590	5040 3139	4488 3252	4512 2609	4752 2917	4848 3019	4608 3010	4512 3007	5448 3261	5856 3708	5976 3700
4- 140	SHAWMUT	84 56	87 61	93 61	75 50	66 47	66 46	90 51	78 49	75 49	69 49	75 51	90 55
4- 150	SHAWMUT REA	22 11	29 13	41 18	41 13	25 8	23 8	22 8	18 5	23 8	34 9	32 12	41 19
4- 170	BARBER	NA NA	51 15	42 18	42 14	45 17	141 64	162 111	165 105	144 61	36 15	33 14	39 16
4- 200	NIHILL	696 432	666 530	660 445	516 380	NA 328	528 318	408 266	420 361	402 305	480 380	564 331	738 555
4- 211	JUDITH GAP	378 216	372 286	339 231	318 209	276 196	264 182	270 203	267 193	282 198	570 222	324 187	522 259
4- 220	STRAW	732 463	708 419	696 463	558 346	456 286	474 316	522 291	456 282	432 284	540 328	600 276	600 550
4- 230	ROYSTON	35 2	35 2	23 4	36 1	11 1	12 1	26 2	19 NA	64 NA	64 NA	6 NA	6 NA
4- 231	RUBY GULCH REA	708 380	756 380	708 400	528 258	528 227	486 154	240 109	360 182	396 208	408 263	516 335	480 321
4- 240	MOORE	906 336	1032 350	780 280	816 251	636 189	660 173	720 103	798 270	960 226	900 284	1032 345	912 367

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
4- 260	GLENGARRY REA	1350 822	1296 756	1314 803	1044 649	963 578	990 513	720 506	630 438	720 443	900 550	1260 663	1152 733
4- 268	BERG SAWMILL	420 68	444 41	360 53	390 21	144 13	120 3	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4- 270	LEWISTOWN NO. 1	2160 1141	2064 1207	1992 1167	1728 1235	1632 955	1680 1047	1728 1106	1776 1194	1920 1182	2256 1367	2400 1538	2496 1526
4- 280	HEATH REA	954 689	954 479	990 544	774 482	612 395	630 383	522 371	540 370	594 376	720 464	972 556	882 488
4- 290	HEATH U.S. GYPSUM	928 469	928 478	960 499	960 485	960 494	896 582	896 548	896 611	896 622	928 615	928 640	960 653
4- 340	LEWISTOWN RADAR	276 NA	276 188	264 NA	246 175	228 119	132 73	120 83	144 81	240 136	228 152	276 148	264 177
4- 350	HIGLER REA	4311 2413	3846 2653	4184 2573	2958 2100	2536 1861	2324 1904	2536 1839	2536 1909	2113 1745	2958 1937	4099 2609	3803 2453
4- 410	LEWIS. NO. 3 PEAVEY	176 30	160 38	192 34	160 21	166 10	64 7	64 9	64 12	128 13	176 23	173 14	176 15
4- 420	HANOVER JCT	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	138 38	NA NA	NA NA
4- 430	ROSS FORK M-II	32 22	32 28	27 22	26 22	24 22	32 25	30 17	26 22	30 22	26 23	24 22	40 23
4- 440	KOLIN REA	462 211	375 194	396 209	288 159	225 127	228 117	207 113	204 119	210 119	270 147	510 159	372 236
4- 450	MOCCASIN	492 262	396 243	444 260	336 211	240 193	312 177	348 209	300 184	336 191	348 208	444 244	408 264
4- 460	WINDHAM	495 398	459 366	513 403	450 328	414 290	414 288	414 250	450 239	360 189	405 217	495 327	540 414
4- 501	STANFORD CITY	1760 1447	1880 1496	1840 1413	1320 786	1120 693	1240 613	1040 642	1040 662	1080 680	1360 762	1640 907	1680 1067
4- 510	DENTON	1800 1231	1632 908	1728 1262	1416 893	1344 1119	1248 765	1224 797	1248 876	1224 810	1392 929	1608 1018	1632 1100

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
4- 530	SO. BUTTE NO. 258	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4- 540	GERALDINE	1188 673	1062 620	1170 745	882 543	990 591	846 473	810 532	792 497	810 520	990 601	1260 705	1188 772
4- 550	MERINO B-1	48 33	48 46	46 32	48 34	46 37	43 34	43 33	41 35	46 35	41 34	48 25	48 44
4- 560	GEYSER	76 48	76 42	76 46	72 42	67 40	67 42	67 44	67 46	76 45	81 48	81 51	90 57
4- 990	SPION KOP REA	780 572	750 469	810 505	762 393	612 337	540 318	480 270	510 315	540 266	540 400	630 295	720 563

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
6- 130	MADISON STORAGE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3
6- 143	KYD PUMP	NA	NA	NA	NA	2412	2400	2472	2316	1800	2244	780	228
		NA	NA	NA	NA	1245	1795	1742	1567	1467	800	259	28
6- 150	IDEAL CEMENT	6200	NA	5800	5800	7000	7100	7100	7100	7200	7500	7400	7200
		NA	NA	4025	3148	4625	5818	5865	5605	5245	5224	5956	4955
6- 151	THREE FORKS SUB	1968	2064	1968	1584	1608	2256	2208	1920	1920	1680	1800	1920
		1387	1440	1376	1246	1456	1538	1576	1219	1269	1212	1311	1382
6- 152	THREE FORKS NO.2	2016	1896	NA	1824	1632	1632	1632	1680	1440	1776	2256	2352
		1180	1080	NA	1127	956	1024	1039	1010	1048	1082	1226	1341
6- 170	HARRISON-PONY	NA	NA	NA	NA	NA	900	1320	600	480	480	480	540
		NA	NA	NA	NA	NA	NA	643	296	295	302	334	340
6- 180	ENNIS	1800	2040	1800	1500	1200	1680	1920	NA	1500	1560	1980	1812
		1152	1198	1192	902	826	1058	1265	NA	930	969	1150	1272
6- 190	MADISON VALLEY	540	600	588	480	498	720	672	NA	456	480	570	492
		370	395	405	259	268	335	288	NA	262	276	348	380
6- 200	LOGAN	101	96	96	91	91	67	61	61	69	69	80	85
		53	52	37	38	35	35	37	37	38	35	46	43
6- 213	MANHATTAN	1728	1818	1548	1350	1962	2268	2196	1728	1530	1260	1710	1710
		1031	970	977	866	1104	1514	1485	1036	986	887	970	1050
6- 220	BELGRADE	4248	4680	5076	4392	4608	4752	5148	5040	4464	4608	5112	5112
		2892	3135	3077	2777	2663	3127	3305	3005	2813	2798	3124	3368
6- 222	MOUNTAIN VILLIAGE	4992	4800	NA	NA	3264	3984	1632	1248	1584	2976	3072	4800
		NA	NA	NA	NA	1642	NA	NA	707	838	945	1580	2552
6- 241	BOZ NORTHSIDE	5856	6096	5568	5232	4992	5136	5280	4800	4752	5040	5520	5568
		3867	4514	3933	3683	3513	3613	3329	3432	3307	3588	3614	3821
6- 243	MEADOW VILLIAGE	3564	3468	4530	NA	NA	3270	1092	1344	1368	3276	3456	3564
		1646	2324	1879	NA	1163	888	768	773	864	1052	1497	2352
6- 250	BOZ SOUTHSIDE NO 3	4640	4640	4000	4000	3200	3200	3360	3520	3360	4000	4160	4160
		2549	2867	2400	2207	2067	2053	2022	2219	2244	2438	2437	2501

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
6- 251	BOZ SOUTHSIDE NO 1	5600	5760	5280	3520	3360	3360	2880	3200	3200	3680	4000	4080
		3374	3929	3111	2391	2104	1889	1742	1935	2111	2438	2506	2598
6- 252	BOZ SOUTHSIDE NO 2	4320	4224	4320	4320	4320	4320	3456	3520	4320	4480	4544	4480
		2485	3000	2489	2685	2633	2257	1767	2071	2160	2817	2749	2501
6- 300	CHERRY CREEK	55	60	55	53	40	70	52	35	40	40	43	51
		23	25	27	19	18	24	16	11	14	15	16	20
6- 311	BOZ HOT SPRINGS	1440	2580	1560	960	840	1020	1140	960	1020	1200	1500	1440
		1414	1643	1340	NA	603	680	716	658	640	775	903	997
6- 320	BOZ SOURDOUGH	3712	3392	3008	2880	2624	2240	2304	2304	2720	3456	3840	3872
		1838	2105	1787	1655	1517	1449	1299	1454	1560	1913	2097	2253
6- 321	EAST GALLATIN	5250	NA	3570	3780	3066	3150	3570	3570	3780	4200	5460	5460
		3155	NA	2800	2559	2209	2368	2427	2540	2403	2888	3440	3904
6- 330	MOUNT ELLIS REA	531	580	513	423	405	373	337	360	346	400	468	522
		338	291	319	259	217	199	188	181	192	221	274	304
6- 340	MUIR	178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6- 350	CLYDE PARK REA	900	864	864	684	648	738	702	702	630	612	738	846
		NA	496	540	423	385	420	395	448	383	358	443	525
6- 361	LIVINGSTON CITY	4992	4864	3040	4480	4000	4384	4832	4736	4416	4384	5504	6080
		3048	2869	2691	2848	2567	2729	2986	2941	2816	3024	3302	3885
6- 362	LIVINGSTON N. SIDE	3768	5928	3600	3048	2760	2880	2808	3000	2952	3336	3768	3768
		2324	2358	2228	1940	1836	1781	1897	1929	1961	2107	2268	2449
6- 363	DOWNER SUB	125	128	128	115	115	112	99	106	106	131	138	154
		60	56	58	44	36	40	35	38	37	48	53	62
6- 364	PINE CREEK REA	666	630	558	414	1296	1296	1242	1062	936	378	576	702
		414	378	353	292	356	743	768	675	365	247	335	394
6- 380	MANHATTAN PUMP	1200	1260	1272	1212	1236	1320	1236	1236	1248	1260	1260	1260
		959	1073	931	855	NA	935	975	972	944	890	919	1042
6- 390	LIVINGSTON REA	1170	2322	1134	792	810	846	900	774	594	738	972	1062
		734	640	579	474	423	445	426	430	346	375	510	635

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
6- 410	CHICO REA	414 276	456 264	450 268	348 213	324 189	330 167	300 185	288 178	NA 266	432 251	504 336	720 441
6- 420	CHICO	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
6- 450	BROGAN	279 154	294 164	261 139	219 130	195 118	240 130	204 130	204 89	210 161	258 145	294 175	333 198
6- 470	GARDINER	1288 764	1200 783	1064 680	944 586	784 486	912 538	816 555	952 541	976 557	992 623	1120 740	1264 827
6- 500	MAMMOTH	608 357	400 237	384 152	208 146	224 159	768 518	608 503	688 524	832 504	624 374	480 389	560 420
6- 510	NORTS JUNCTION	NA NA	NA NA	NA NA	NA NA	NA NA	35 7	30 11	38 14	31 13	NA NA	NA NA	NA NA
6- 520	CANYON	NA NA	NA NA	NA NA	NA NA	NA NA	1056 116	800 505	864 547	656 265	NA NA	NA NA	NA NA
6- 530	LAKE YELLOWSTONE	NA NA	NA NA	NA NA	NA NA	NA NA	1632 236	1312 750	1472 844	960 425	NA NA	NA NA	NA NA
6- 540	WEST THUMB	NA NA	NA NA	NA NA	NA NA	NA NA	80 42	184 66	176 98	128 46	NA NA	NA NA	NA
6- 550	MADISON JUNCTION	NA NA	NA NA	NA NA	NA NA	NA NA	94 NA	65 46	NA NA	79 41	NA NA	NA NA	NA NA
6- 560	OLD FAITHFUL	NA NA	NA NA	NA NA	NA NA	NA NA	1280 355	1440 726	1280 844	960 678	NA NA	NA NA	NA NA
6- 601	BURKLAND LUMBER	600 183	584 187	592 179	584 172	568 113	528 91	496 89	512 157	528 155	536 157	496 93	528 104
6- 602	PARK LUMBER	110 5	116 6	136 7	114 3	70 4	100 5	106 7	110 10	98 6	92 6	94 6	80 4
6- 610	EBERT - WINDSOR	168 NA	168 NA	192 NA	144 NA	336 NA	312 204	312 150	312 NA	288 217	336 244	264 150	384 170
6- 620	HUNTERS HOT SPRINGS	56 28	47 25	53 26	43 22	98 29	132 75	276 176	276 88	186 84	82 41	112 46	116 52

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
6- 630	SPRINGDALE PUMP	1824 1297	1656 850	1848 1713	1824 1121	1800 1236	1848 1317	1848 1394	1872 1337	1872 1413	1968 1206	1920 1407	1992 1397
6- 631	SPRINGDALE REA	144 65	135 63	148 69	139 45	103 40	261 180	265 98	261 82	247 74	94 36	130 43	126 54
6- 640	MCLEOD REA	288 173	252 150	252 NA	252 128	372 194	312 174	348 198	408 227	348 168	312 150	228 141	312 167
6- 650	BIG TIMBER	1952 1051	1696 1229	1696 NA	NA NA	1376 954	1344 856	1392 963	1376 944	1440 914	1408 902	1648 1053	1920 1176
6- 660	MELVILLE	NA NA	NA NA	NA NA	473 402	408 216	427 235	389 231	389 222	394 210	439 254	535 298	538 63
6- 670	GREYCLIFF	258 119	NA NA	NA NA	NA NA	150 96	150 87	168 102	156 96	156 92	156 91	234 111	240 114
6- 690	BIG TIMBER REA	672 398	672 375	672 NA	468 347	408 235	432 242	552 337	528 293	480 280	480 283	588 321	720 443
6- 700	FRAZIER PUMP	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
6- 710	GREEN RANCH	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
7- 20	BASIN	264 172	240 183	288 181	240 161	240 147	240 153	240 139	264 170	288 163	288 163	288 167	264 165
7- 70	CANYON CREEK	2640 1914	2880 2033	3120 1871	2640 1594	1920 1310	1680 863	1680 910	1680 910	1440 822	1920 1266	2160 1448	2280 1513
7- 80	GILBERT	756 465	750 418	690 422	690 358	690 273	690 279	420 284	420 284	492 250	600 311	690 354	678 412
7- 90	WOLF CREEK	750 497	720 474	738 430	534 323	558 324	504 278	672 400	642 318	492 440	804 193	648 414	684 458
7- 101	TOWNSEND	4320 2739	4320 2719	3816 2432	3600 2052	4680 2080	6120 4760	6624 3242	5760 2800	6120 3860	5400 3532	5760 4397	5976 3525
7- 111	TOSTON	480 383	720 395	648 348	576 368	3936 1653	4224 3093	3984 2119	3216 1787	1296 880	1056 587	1056 522	768 450
7- 120	CROW CREEK W/BR	NA NA	NA NA	NA NA	NA NA	NA NA	1952 364	1984 1480	1984 1889	1312 873	640 209	NA NA	NA NA
7- 130	LOWETH NO 1	3283 1902	3097 1880	3159 1748	2788 1384	2528 1510	2416 1427	2106 1399	2044 1225	2044 1216	2540 1506	2912 1630	3159 2090
7- 200	BOULDER	1860 1165	1920 1228	1860 1144	1440 985	1320 938	1380 963	1320 900	1440 1085	1380 968	1560 1016	1800 1243	1776 1242
7- 202	BRAND S SAWMILL	6 5	45 5	96 17	93 13	10 8	67 3	80 10	80 9	96 16	93 16	102 17	112 25
7- 220	KAISER CEMENT	5360 4535	5250 4130	5250 1227	5320 4161	5270 4473	5170 4147	5180 3354	5100 4097	5180 4226	5150 4074	5200 3514	5160 4158
7- 241	E HEL. BK.#A AS&R	2352 1923	2784 1970	2736 1961	2832 1952	2784 2000	2784 1393	NA NA	NA NA	NA NA	NA NA	2817 2020	3450 1669
7- 242	E HEL. BK.#B AS&R	3000 2394	2928 2363	2904 2181	2880 2272	2760 2300	3072 2317	3144 2363	3360 2560	3360 2397	3600 2719	3408 2634	3480 2613
7- 260	ALHAMBRA	1152 680	1152 660	1140 653	948 572	864 522	816 504	816 504	816 521	972 525	1020 615	1200 716	1380 781
7- 301	E HELENA TWN & RUL	6930 4437	6846 4362	6510 4104	5124 3554	5250 3773	5544 NA	6804 NA	5880 4048	5880 3751	5880 4025	6510 5262	6972 4428

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
7- 303	NAT CYLINDER GAS	1296 1166	1312 1262	1312 1260	1328 1200	1312 1210	1312 1011	1344 1219	1312 1191	1312 1138	1312 1217	1296 1153	1344 1182
7- 320	YELLOWSTONE PIPE	1920 1110	2112 1089	2016 990	1800 945	1992 1000	1992 958	1992 1100	2040 1103	2064 1110	1896 968	1992 1067	1896 1133
7- 321	HELENA EAST SIDE 1	5520 3639	5376 3667	5280 3490	5232 3214	4800 2988	5040 3107	5040 3494	5040 3367	5040 3307	5040 3400	6000 3707	6480 4007
7- 322	HELENA EAST SIDE 2	4704 3271	4800 3289	4704 3168	4704 2917	4656 2738	4752 2833	4800 2981	4704 2913	4704 2920	4704 2955	4848 3227	4704 3413
7- 331	HELENA FRONT ST. 1	5616 3452	5568 3511	5088 3342	4560 3055	4176 2745	4800 2979	6960 2506	4704 3713	4707 3107	4656 3187	5760 3473	5712 3567
7- 332	HELENA FRONT ST. 2	4128 2770	4000 2830	4032 2675	3712 2510	4096 2461	4608 2598	4768 2854	4672 2858	4672 2773	4160 2800	4576 3111	4704 3364
7- 351	HELENA WEST SIDE 1	4352 2292	4095 2311	4064 2141	3328 1931	3072 1766	2880 1775	3008 1846	3168 1800	3200 1929	3392 2473	4384 1924	4544 2596
7- 352	HELENA WEST SIDE 2	4824 2855	4896 3011	4752 2642	4680 2431	3456 2264	3816 2379	4032 2494	3744 2400	5112 2390	3960 2565	4968 2900	5040 3200
7- 353	HELENA WEST SIDE 3	2160 1287	2016 1322	2160 1258	2232 1086	2160 1064	1368 1003	1440 1134	1440 1060	1440 1080	1584 1171	2160 1400	2304 1580

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
9- 71	MISSOULA #1 3.3 KV	6380 3808	6380 3970	6380 3867	6380 3667	6380 3442	6380 3667	6380 3750	6960 3808	6960 3786	6380 3742	6380 3867	6960 4189
9- 72	MISSOULA #1 BANK 3	6574 3801	8304 5200	7958 5046	7266 4822	6920 4550	6920 4758	7266 4971	7266 4980	7612 5094	8304 5302	9342 5863	9688 6295
9- 76	BONNER	13680 7727	14688 8133	13680 7500	11232 6580	10800 5925	10224 6540	10368 5855	9504 NA	11232 NA	11232 6368	12672 11000	14544 4580
9- 100	FRENCHTOWN W/BPA	3168 2181	3120 2019	3168 NA	2256 NA	2064 1290	2352 1678	2256 1672	2208 1561	2160 1455	2592 1490	2736 1800	3504 2406
9- 107	HOERNER-WALDORF BK1	7680 NA	8160 NA	8400 NA	8400 NA	8448 NA	7920 NA	7200 NA	8400 NA	7200 NA	8160 NA	7200 NA	8112 NA
9- 108	HOERNER-WALDORF BK2	7824 NA	8256 NA	8544 NA	8400 NA	8640 NA	7920 NA	7920 NA	8400 NA	7344 NA	8304 NA	7200 NA	8160 NA
9- 109	HOERNER-WALDORF BK3	7824 5808	8160 5921	8544 5859	8400 6124	8448 6171	7920 5828	7920 4938	8400 5927	7200 5043	8160 5996	7200 5857	8160 5638
9- 120	ALBERTON	936 637	960 633	1008 595	1008 498	696 445	600 422	612 410	744 388	648 447	816 497	1020 617	1080 688
9- 140	DIAMOND MATCH	2916 1861	2916 1950	2952 1866	2880 1859	2736 1575	2736 1555	2592 1950	2628 944	2700 2180	2952 1777	2988 1623	2952 2111
9- 150	SUPERIOR	1880 1304	1840 1332	1880 1270	1960 1060	1360 977	1480 1159	1520 990	1360 928	1520 1057	1600 1066	1920 330	2160 1480
9- 160	ST. REGIS	824 551	1120 566	680 501	840 440	800 447	648 457	672 474	704 454	696 376	776 678	840 458	864 723
9- 180	HAUGEN	306 178	384 180	348 188	384 196	282 153	318 173	348 204	348 179	378 184	414 209	450 237	420 274
9- 181	HUSON REA	1792 1251	2100 1234	2016 1219	1512 948	1400 817	1624 1214	1372 998	1540 990	1512 869	1736 894	1680 1046	2184 1423
9- 190	SALTESE	162 NA	192 NA	146 NA	128 NA	106 NA	112 60	110 61	112 60	NA NA	189 NA	270 125	270 191
9- 219	MISSOULA #1 BANK 4	9120 5964	8640 6459	8640 5381	7680 5503	7200 5163	7200 4840	7200 4510	6240 4448	6720 4667	7680 5548	9600 5907	9600 5853

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
9- 220	MISSOULA #2 BANK 3	8064 4794	7728 4952	9072 5273	8064 4997	8400 4813	8400 4860	8400 5250	8400 5112	8064 5180	8400 5465	10416 5997	10752 6427
9- 221	MISSOULA #2 BANK 1	12480 8303	13680 8554	12240 7233	10320 6672	9600 6219	9600 6300	9840 6646	9840 6227	9600 6250	9960 6710	12240 7533	13320 8530
9- 222	MISSOULA #2 BANK 2	9024 5830	9024 6057	8448 5680	8448 4310	8448 5075	8448 4949	8832 5483	9024 5212	8448 5213	8064 5381	9216 5880	10560 6291
9- 231	MISSOULA #3 BANK 1	9720 6436	10080 6225	9720 5640	7272 4914	6840 4453	6984 4730	6120 3714	7560 4627	7200 4620	7560 4906	7920 5340	8280 5840
9- 232	MISSOULA #3 BANK 2	11040 7242	11280 7232	11040 7300	11520 7655	11760 7438	12000 8200	10080 6103	12240 7894	11760 7650	11760 7806	12480 8000	12120 8450
9- 250	PLAINS	3888 2639	4224 2911	4608 2613	3744 2129	3864 2541	3984 2467	3960 2444	3984 2200	3648 2252	3936 2397	4416 2840	4800 3152
9- 272	THOMPSON FALLS YPL	1450 503	1400 694	1400 721	1400 545	1400 597	1450 718	1400 627	1400 342	1400 789	1400 627	1400 693	1450 766
9- 510	THOMPSON FALLS LUMB	1256 423	NA 875	1192 417	1024 549	960 558	NA 569	1000 570	1096 888	1064 559	1120 590	1088 591	1144 603
9- 530	THOMPSON FLS RURAL	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
9- 570	LOLO	4825 4218	5136 3307	4896 2966	3840 2380	3360 2225	3408 2290	3456 2243	3456 2152	3072 2160	3936 2497	5184 3153	5040 3587
9- 580	FLORENCE	744 436	732 453	690 403	600 337	582 363	546 358	546 343	540 334	552 323	582 349	780 433	750 483
9- 590	STEVENSVILLE	2412 1571	1872 769	1854 1480	1818 1263	1854 1345	2070 1435	1836 1500	1818 1418	1818 1285	1854 1379	2700 1650	2880 1873
9- 610	STEVENSVILLE W/BPA	2632 1757	2856 1675	2408 1617	2016 1227	1904 1147	2184 1671	2240 1501	2184 1630	2128 1355	2128 1093	2296 1322	2800 1791
9- 620	VICTOR	630 272	570 297	540 294	420 241	420 230	450 265	342 254	450 252	420 223	480 252	612 346	720 400
9- 639	GRANTSDALE W/BPA	1344 842	1512 796	1540 813	1120 621	1064 548	1260 942	1288 861	1344 931	1036 658	1092 467	1148 628	1428 862

INST. NO.	SUBSTATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
9- 640	HAMILTON CITY	3424	3072	3040	3008	3040	3040	3296	3168	3136	2976	3328	3360
		2138	1939	2012	1837	1862	1863	2198	1992	1911	1876	2089	2248
9- 641	HAMILTON RURAL	3240	3312	3024	2736	2520	2592	2880	2736	2664	2736	3456	3528
		2086	1860	1924	1635	1650	1688	1969	1781	1760	1743	2014	2281
9- 650	CORVALLIS	1494	1584	1422	1170	1548	1548	1656	1476	1260	1242	1476	1530
		240	372	296	246	307	323	389	295	278	252	239	334
9- 660	DARBY	7000	7600	7500	5000	4500	4500	4250	4250	5000	5600	6100	6250
		3919	4042	3695	2836	2545	2604	2587	2526	2374	2782	3365	3571
9- 681	THOMPSON FALLS CITY	2400	2400	2400	1920	1680	1680	1440	1512	1656	2160	2448	2640
		1107	1536	1481	1243	991	993	950	927	974	1303	1409	1807
9- 682	THOMPSON FALLS REA	1008	1120	1148	644	616	672	756	588	756	896	924	1120
		711	708	661	380	361	382	410	377	394	454	611	766
9- 700	FLODIN LUMBER	1080	1062	1062	1020	1008	990	972	984	990	1020	1026	1098
		263	427	420	412	338	383	395	378	397	403	399	431
9- 710	RAVENNA W/BPA	444	444	432	324	312	456	492	600	444	336	384	432
		NA	279	279	215	191	292	327	403	259	48	243	286
9- 720	TARKIO W/BPA	504	492	456	420	336	324	312	348	312	408	432	492
		NA	314	306	242	198	205	209	NA	169	218	271	345
9- 730	CORVALLIS W/BPA	3528	3920	3920	2800	2744	3304	3360	3136	2800	3248	3248	3864
		2392	2307	1763	2217	1637	2616	2388	2287	1739	1552	1909	2491

EXHIBIT "I"

EXHIBIT "I"

ESTIMATED PEAK SUBSTATION LOAD IN KILOWATTS 1977 - 1987

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
1- 91	ANACONDA CITY NO. 1	3272	3299	3325	3352	3379	3406	3433	3461	3489	3517
1- 92	ANACONDA CITY NO. 2	2760	2810	2860	2912	2964	3018	3072	3127	3183	3241
1- 94	ANACONDA CITY NO. 3	3000	3120	3245	3375	3510	3650	3796	3948	4106	4270
1- 95	ANACONDA CITY N. 4	5500	5720	5949	6187	6434	6692	6959	7238	7527	7828
1- 120	DEERLODGE MIL SHOP	359	373	388	403	419	435	452	470	488	507
1- 131	DEERLODGE CITY 4.1	2600	2621	2642	2663	2684	2706	2727	2749	2771	2793
1- 132	DEERLODGE CITY 12.	1800	1836	1873	1910	1948	1987	2027	2068	2109	2151
1- 133	DEER LODGE 25 KV	2000	2100	2205	2315	2431	2553	2680	2814	2955	3103
1- 140	DEERLODGE GAS PUMP	1802	1832	1863	1894	1926	1958	1991	2025	2058	2093
1- 160	MONT. PHOSPHATE SUB	2293	2368	2447	2528	2611	2698	2787	2879	2975	3073
1- 181	DRUMMOND CITY	1300	1334	1368	1404	1441	1478	1516	1556	1596	1638
1- 183	DRUMMOND PUMP	1088	1156	1228	1305	1386	1473	1565	1663	1766	1877
1- 189	INDUSTRIAL PARK SUB	2778	2917	3063	3216	3377	3546	3723	3909	4105	4310
1- 190	PACIFIC STREET	5591	5568	5545	5523	5500	5478	5455	5433	5411	5389
1- 212	ARBITER BANK NO. 1	21194	21194	21194	21194	21194	21194	21194	21194	21194	21194
1- 213	ARBITER BANK NO. 2	21194	21194	21194	21194	21194	21194	21194	21194	21194	21194
1- 215	ANACONDA SMELT. ANA	8472	8472	8472	8472	8472	8472	8472	8472	8472	8472
1- 216	COMP. SUB-SMELTER	12096	12096	12096	12096	12096	12096	12096	12096	12096	12096
1- 217	CONVERTER SUB ANA	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800
1- 218	ACID PLANT ANA	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200
1- 221	CONCENT. BK. 1 ANA	8557	8557	8557	8557	8557	8557	8557	8557	8557	8557

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
1- 222	CONCENT. BK. 2 ANA	8645	8645	8645	8645	8645	8645	8645	8645	8645	8645
1- 223	CONCENT. BK. 3 ANA	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300
1- 224	CONCENT. BK. 4 ANA	5060	5060	5060	5060	5060	5060	5060	5060	5060	5060
1- 225	CONCENT. BK. 5 ANA	6915	6915	6915	6915	6915	6915	6915	6915	6915	6915
1- 232	MONTANA ST. BANK 1	5900	6077	6259	6447	6641	6840	7045	7256	7474	7698
1- 233	MONTANA ST. BANK 2	3100	3162	3225	3290	3356	3423	3491	3561	3632	3705
1- 234	MONTANA ST. BANK 3	4600	4830	5072	5325	5591	5871	6164	6472	6796	7136
1- 235	MONTANA ST. BANK 4	8185	8652	9145	9667	10218	10801	11416	12067	12755	13483
1- 240	TAILINGS BOOST ANA	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
1- 241	CRUSHER SUB BK 1 A	2643	2643	2643	2643	2643	2643	2643	2643	2643	2643
1- 242	CRUSHER SUB BK 2 A	2643	2643	2643	2643	2643	2643	2643	2643	2643	2643
1- 243	PRECIP SUB BK 1 AN	11784	11784	11784	11784	11784	11784	11784	11784	11784	11784
1- 244	PRECIP SUB BK 2 AN	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
1- 260	RAMSAY PUMP ANA	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
1- 280	CONTINENTAL DR. 1	3143	3243	3344	3447	3552	3658	3765	3875	3986	4099
1- 285	CONTINENTAL DR. 2	4935	4954	4973	4992	5012	5031	5050	5070	5090	5109
1- 291	RENOVA DISTRIBUTION	1030	1203	1405	1641	1916	2238	2614	3052	3565	4163
1- 310	DIVIDE	2500	2700	2916	3149	3404	3673	3967	4285	4627	4998
1- 332	HAYES STREET ANA	1273	1311	1351	0	0	0	0	0	0	0
1- 360	PHILIPSBURG CITY	1200	1210	1219	1229	1239	1249	1259	1269	1279	1289
1- 380	FOSTER CREEK	1200	1241	1283	1327	1372	1418	1467	1516	1567	1621
1- 421	DILLON CITY 4.16 K	5699	5811	5924	6040	6159	6279	6402	6527	6655	6785

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
1- 422	DILLON CITY 12.5 K	2857	2949	3044	3142	3243	3348	3455	3567	3682	3800
1- 425	DILLON AIRPORT	934	1051	1182	1330	1496	1683	1894	2131	2398	2698
1- 430	POINT OF ROCKS W/B	1300	1400	1500	1600	1800	1900	2000	2200	2400	2600
1- 431	BARRETTS W/BPA	1670	1800	2000	2200	2400	2600	2900	3200	3500	3800
1- 440	SHERIDAN	1764	1852	1945	2042	2144	2251	2364	2482	2606	2737
1- 451	TWIN BRIDGES	1131	1184	1240	1298	1359	1423	1490	1560	1633	1710
1- 480	WHITEHALL	1065	1082	1098	1116	1133	1151	1169	1187	1206	1224
1- 500	VIRGINIA CITY	409	415	421	426	432	438	445	451	457	463
1- 530	DELL REA	1152	1252	1361	1480	1608	1748	1900	2066	2245	2440
1- 540	DRUMMOND W/BPA	5300	5809	6366	6973	7647	8382	9186	10068	11035	12094
1- 550	PHILIPSBURG AUTO	2066	2093	2120	2147	2175	2203	2232	2261	2291	2320
1- 570	BANNACK REA	2270	2300	2400	2500	2700	2900	3000	3100	3200	3400
1- 580	DILLON REA	2730	2900	3100	3300	3500	3800	4100	4400	4700	5020
1- 590	DIVIDE W/BPA	1300	1400	1500	1600	1800	1900	2000	2200	2400	2600
1- 592	STONE CREEK W/BPA	2211	2344	2485	2634	2792	2959	3137	3325	3524	3736
1- 600	SILVER STAR REA	1000	1100	1100	1200	1300	1400	1500	1600	1800	1900
1- 611	NEW WHITEHALL W/BPA	1000	1100	1100	1200	1300	1400	1500	1600	1700	1900
1- 651	CORRA BANK 1 ANA	6882	6882	6882	6882	6882	6882	6882	6882	6882	6882
1- 652	CORRA BANK 3 ANA	2652	2652	2652	2652	2652	2652	2652	2652	2652	2652
1- 653	CORRA BANK 5 ANA	1167	1167	1167	1167	1167	1167	1167	1167	1167	1167
1- 661	KELLY COMPRESSOR 1	9974	9974	9974	9974	9974	9974	9974	9974	9974	9974
1- 662	KELLY COMPRESSOR 2	9964	9964	9964	9964	9964	9964	9964	9964	9964	9964

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
1- 663	KELLY MINE ANA	9533	9533	9533	9533	9533	9533	9533	9533	9533	9533
1- 664	ELECTRIC FURN.1 ANA	12960	12960	12960	12960	12960	12960	12960	12960	12960	12960
1- 665	ELECTRIC FURN.2 ANA	12960	12960	12960	12960	12960	12960	12960	12960	12960	12960

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2- 100	MISSION ROAD	2451	2471	2491	2511	2531	2551	2572	2592	2613	2634
2- 101	ADEL (CASCADE)	169	179	189	201	213	226	239	253	269	285
2- 131	CITY SUB - NO. BANK	20382	23353	26756	30655	35122	40241	46105	52824	60522	69342
2- 132	CITY SUB - SO. BANK	18437	20374	22515	24880	27494	30382	33574	37101	40998	45305
2- 133	NORTHWEST #1	9072	9526	10002	10502	11027	11578	12157	12765	13403	14074
2- 134	NORTHWEST #2	8316	8732	9168	9627	10108	10614	11144	11701	12287	12901
2- 141	EAST SIDE SO. BANK	6760	6963	7172	7387	7609	7837	8072	8314	8563	8820
2- 142	EAST SIDE NO. BANK	12469	13243	14056	14910	15807	16749	17738	18776	19866	21011
2- 150	SOUTH SIDE E. BANK	11433	11649	11868	12091	12318	12548	12782	13020	13261	13506
2- 151	SOUTH SIDE W. BANK	9398	10381	11468	12668	13993	15457	17075	18861	20835	23015
2- 160	WAYNE PUMP (FIFE)	563	564	565	566	568	569	570	571	572	573
2- 170	RAYNESFORD PUMP	2218	2268	2320	2373	2427	2483	2540	2598	2658	2719
2- 180	MONARCH VALLEY	760	793	828	864	902	941	983	1026	1071	1117
2- 191	KINGS HILL OLD T-BA	176	173	171	168	166	164	162	159	157	155
2- 220	HAVRE HIGHLAND PARK	6941	7539	8188	8893	9659	10491	11395	12376	13442	14600
2- 240	SACO ALFALFA	305	308	311	314	316	319	322	325	328	331
2- 261	VAUGHN	2578	2759	2962	3187	3438	3718	4030	4379	4767	5199
2- 280	TREASURE STATE INDU	255	258	260	263	265	268	270	273	276	279
2- 290	PAPIN GRAVEL	7	7	8	8	9	9	10	10	11	11
2- 300	ASHUELOT W/BR	3920	4155	4405	4669	4949	5246	5561	5895	6249	6623
2- 310	FORT SHAW W/BR	2260	2330	2395	2464	2536	2609	2685	2763	2843	2926
2- 311	FAIRFIELD	1235	1283	1332	1383	1436	1491	1549	1608	1670	1734

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2- 312	FAIRFIELD - AUGUSTA	618	636	654	673	693	713	733	754	776	799
2- 320	FAIRFIELD W/BR	1755	1805	1860	1916	1973	2032	2093	2156	2221	2288
2- 330	BOLE	204	208	212	216	221	225	230	234	239	244
2- 340	CHOTEAU	2387	2567	2758	2958	3169	3392	3626	3873	4133	4407
2- 341	CHOTEAU 12.5 KV	959	959	959	959	959	959	959	959	959	959
2- 350	PENDROY W/BR	2120	2245	2380	2523	2674	2835	3005	3185	3376	3579
2- 360	PONDERA OIL FIELD	435	451	467	484	502	520	539	559	580	601
2- 370	CONRAD PUMP	364	356	349	341	334	327	320	313	306	300
2- 380	CONRAD CITY	4374	4545	4724	4909	5102	5302	5511	5727	5952	6186
2- 390	BRADY	672	698	724	752	780	810	841	873	906	940
2- 400	BRADY W/BR	1820	1890	1925	2000	2078	2159	2243	2331	2422	2516
2- 410	DUTTON	1239	1264	1290	1316	1342	1370	1398	1426	1455	1485
2- 420	DUTTON PUMP	2035	2086	2139	2194	2250	2309	2369	2431	2496	2562
2- 430	POWER TOWN	562	597	634	674	715	759	806	855	907	963
2- 440	CARTER	441	451	460	470	480	490	500	510	521	532
2- 450	FORT BENTON	3308	3324	3339	3354	3369	3385	3400	3416	3431	3447
2- 459	HOLTZ PUMP	499	499	499	499	499	499	499	499	499	499
2- 460	PORTAGE	565	579	593	608	623	639	655	671	688	705
2- 480	LOMA	235	238	240	243	245	247	250	252	255	257
2- 490	SO. VIRGELLE W/BR	350	366	382	400	418	437	457	478	500	523
2- 500	BIG SANDY	1451	1482	1513	1545	1578	1612	1646	1681	1716	1753
2- 511	BOX ELDER	727	741	755	769	783	798	814	829	846	862

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2- 520	GOOSEBILL REA W/BR	395	405	420	434	449	464	480	496	513	530
2- 530	CHESTER	1674	1685	1696	1707	1719	1730	1741	1753	1764	1776
2- 540	JOPLIN	353	363	373	383	393	404	415	426	438	450
2- 550	INVERNESS	227	230	234	237	241	244	248	251	255	259
2- 560	RUDYARD	574	576	578	580	582	584	586	588	590	592
2- 570	HINGHAM	450	459	467	476	486	495	505	514	524	534
2- 580	GILDFORD	341	346	351	357	363	368	374	380	386	392
2- 590	KREMLIN	216	215	215	215	214	214	214	213	213	213
2- 591	KREMLIN W/BR	660	690	715	747	773	804	836	870	905	959
2- 600	HAVRE CITY	8265	8313	3371	8424	8478	8533	8587	8642	8698	8753
2- 601	HAVRE E. BANK NO. 1	2059	2140	2223	2311	2401	2495	2593	2695	2801	2910
2- 602	HAVRE W. BANK NO. 3	2240	2254	2269	2284	2298	2313	2328	2343	2358	2373
2- 630	LOHMAN	643	673	704	736	770	806	843	881	922	964
2- 640	LOHMAN REA	1166	1239	1317	1400	1488	1582	1682	1788	1900	2020
2- 650	CHINOOK	2865	2948	3034	3122	3213	3307	3403	3503	3605	3710
2- 651	NO. CHINOOK W/BR	290	305	325	346	368	391	417	443	472	502
2- 660	ZURICH	479	546	617	693	775	862	956	1056	1164	1279
2- 665	MOHAR W/BR	75	83	91	100	110	121	133	146	160	176
2- 670	HARLEM	2379	2519	2668	2825	2992	3168	3355	3553	3763	3985
2- 681	HARLEM REA W/BR	1462	1497	1533	1570	1608	1646	1686	1726	1768	1810
2- 682	NO. HARLEM W/BR	203	226	251	280	312	347	387	431	480	535
2- 690	DODSON	550	584	619	656	696	738	782	829	879	933

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2- 700	WAGNER	220	216	212	208	204	200	196	193	189	185
2- 710	MALTA	3461	3562	3667	3774	3885	3998	4115	4236	4360	4488
2- 712	MALTA EAST RURAL	741	778	817	858	901	946	993	1042	1095	1149
2- 720	SACO W/BR	1545	1640	1735	1837	1946	2061	2182	2311	2447	2592
2- 730	SACO	338	345	351	358	365	372	379	386	393	401
2- 740	HINSDALE W/BR	890	945	1000	1060	1124	1191	1262	1338	1419	1504
2- 750	HINSDALE TOWN	623	635	648	661	674	688	703	717	733	748
2- 760	TAMPICO	35	36	37	38	39	40	41	43	44	45
2- 780	GLASGOW WEST SIDE	4603	4882	5178	5492	5825	6178	6553	6951	7372	7819
2- 790	GLASGOW EAST SIDE	3827	3964	4106	4254	4408	4568	4736	4911	5092	5282
2- 810	GLASGOW AFB	4588	4924	5286	5674	6090	6538	7018	7533	8086	8679
2- 850	NASHUA	695	709	724	739	754	769	785	801	818	835
2- 880	FIFE	211	209	206	204	202	200	198	196	194	192
2- 890	NORTHERN MATERIAL	576	576	576	576	576	576	576	576	576	576
2- 921	ULM 25 KV	1514	1575	1638	1703	1771	1842	1916	1993	2072	2155
2- 950	STOCKETT	1134	1159	1184	1210	1237	1264	1292	1320	1349	1379
2- 960	BELT	1930	2008	2089	2174	2262	2353	2448	2547	2650	2757
2- 970	ARMINGTON W/BR	250	265	280	297	315	333	353	375	397	421
2-1020	BLACK EAGLE	11050	11220	11391	11564	11738	11914	12091	12270	12450	12632
2-1026	PHILLIPS REFINERY	2203	2233	2264	2294	2326	2357	2389	2422	2455	2488
2-1029	MORONY RURAL	1581	1661	1746	1835	1929	2027	2130	2239	2353	2473
2-1030	HIGHWOOD REA	969	1002	1036	1071	1108	1146	1185	1226	1267	1311

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2-1040	WAGNER W/BR	2310	2450	2595	2751	2916	3091	3276	3473	3681	3902
2-1090	CUT BANK PUMP	2867	3049	3239	3438	3646	3864	4092	4331	4582	4844
2-1221	NORTH CONRAD W/BR	1166	1239	1317	1400	1488	1582	1682	1788	1900	2020
2-1222	SOUTH VALIER W/BR	897	930	964	1000	1037	1075	1115	1156	1199	1244
2-1320	BIG SANDY REA	874	882	891	900	909	918	927	937	946	955
2-1330	CONRAD 24KV LINE	2918	2962	3007	3053	3099	3146	3194	3243	3292	3342
2-1351	VALIER WILLIAMS	2184	2315	2454	2601	2757	2922	3098	3284	3481	3689
2-1360	MALMSTROM AFB	6937	7006	7076	7147	7218	7291	7364	7437	7511	7587
2-1970	STEVENS PUMP	367	379	391	403	416	430	443	458	472	488
2-2010	HOPP ILLIAD W/BR	524	548	574	600	628	656	687	718	750	786
2-2020	LAREDO (SKYBOY) W/B	2930	3105	3290	3487	3697	3918	4154	4403	4667	4947

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
3- 110	ANDERSON	10	10	10	11	12	12	13	13	14	15
3- 120	BROADVIEW	764	809	856	905	957	1010	1066	1125	1185	1249
3- 125	JENSEN	122	124	125	126	127	129	130	131	133	134
3- 130	IVANHOE NO. 1	2122	2269	2431	2609	2806	3023	3263	3529	3819	4141
3- 140	LITTLE WALL NO. 2	232	231	229	228	227	225	224	223	221	220
3- 150	WILLOW CREEK NO. 3	314	315	316	317	318	319	320	321	322	323
3- 160	ROUNDUP NO. 4	833	850	867	884	901	919	937	955	973	992
3- 170	CUSHMAN	83	86	89	92	95	98	101	104	108	111
3- 180	GAGE	1245	1322	1405	1495	1592	1697	1810	1932	2065	2208
3- 190	IVANHOE	1080	1168	1215	1263	1314	1367	1421	1478	1537	1599
3- 195	KEEFER - EKLUND	260	273	288	302	318	335	352	370	389	409
3- 200	LAVINA	531	549	568	588	608	629	651	673	696	720
3- 210	LAVINA (FERGUS REA)	93	94	94	94	94	94	95	95	95	95
3- 220	MELSTONE NO. 1	1048	1139	1238	1346	1463	1590	1729	1879	2043	2221
3- 230	MOUNTAIN STATES MIN	208	219	230	241	253	266	279	293	308	323
3- 240	MUSSELSHELL	531	557	584	613	644	676	709	744	781	820
3- 245	M. V. FEEDLOT	39	40	42	44	46	47	49	51	53	55
3- 250	ROUNDUP	5394	5447	5501	5555	5610	5667	5724	5782	5841	5900
3- 260	ROUNDUP-FERGUS REA	3650	3865	4093	4335	4591	4862	5148	5452	5774	6115
3- 270	ROUNDUP-MCCONE REA	644	682	722	765	810	858	909	962	1019	1079
3- 280	RYEGATE	581	609	639	670	702	736	771	808	847	888
3- 290	RYEGATE-FERGUS REA	379	401	425	450	477	505	534	566	600	635

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
3- 300	SUMATRA	4937	5426	5963	6553	7202	7914	8698	9559	10505	11544
3- 330	CLARK RANCH	50	51	52	53	54	55	57	58	59	60
3- 332	SARPY AUTO SUB	5639	5978	6336	6716	7119	7547	7999	8479	8988	9527
3- 339	COLST. SW. YD. #1	5258	5574	5908	6263	6639	7037	7459	7907	8381	8884
3- 340	COLST. SW. YD. #2	3721	3945	4181	4432	4698	4980	5279	5596	5931	6287
3- 350	COLSTRIP (SHOP)	815	904	1003	1113	1234	1369	1518	1684	1868	2072
3- 352	W.E. ARMELLS CR. #1	7045	7257	7474	7698	7929	8167	8412	8665	8925	9192
3- 353	W.E. ARMELLS CR. #2	7490	7715	7946	8185	8430	8683	8944	9212	9488	9773
3- 360	COLSTRIP (NO. 6-C)	1702	1771	1843	1918	1996	2077	2162	2250	2341	2437
3- 370	COLSTRIP (PEABODY)	2450	2645	2857	3086	3332	3599	3887	4198	4534	4896
3- 371	NICHOLS PUMP	6330	6900	7521	8198	8936	9740	10616	11571	12613	13749
3- 374	NICHOLS PUMP #2	6330	6900	7521	9198	8936	9740	10616	11571	12613	13749
3- 380	DRINGMAN	80	86	92	99	107	114	123	132	142	152
3- 390	FARLEY RANCH	25	25	25	25	25	25	25	25	25	25
3- 400	GREER	45	45	45	45	45	45	45	45	45	45
3- 410	HARDIN	3605	3715	3827	3943	4063	4186	4313	4443	4578	4717
3- 420	HARDIN FEED MILL	485	519	554	592	632	675	722	771	824	880
3- 430	HARDIN ROAD	1768	1991	2253	2561	2924	3350	3852	4441	5135	5950
3- 431	LOCKWOOD REA	3070	3487	3961	4500	5112	5807	6597	7494	8500	9671
3- 436	SCHAAK REA	817	903	996	1100	1214	1340	1480	1634	1804	1992
3- 437	PRYOR (FARLEY)	45	47	50	52	55	58	61	64	67	70
3- 440	HARDIN - BIG HORN R	4719	5002	5302	5621	5958	6315	6694	7096	7522	7973

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
3- 450	PRYOR (Y. VAL. REA)	1256	1362	1476	1600	1734	1880	2038	2209	2400	2596
3- 460	TONGUE RIVER REA	8692	9295	9941	10632	11370	12160	13005	13909	14875	15908
3- 470	TULLOCK CREEK	41	42	43	44	45	47	48	49	50	52
3- 480	YELLOWTAIL (BIG HOR	1216	1220	1224	1228	1232	1236	1241	1245	1249	1253
3- 490	BILLINGS RIMROCK	10332	10972	11652	12374	13140	13954	14819	15737	16712	17748
3- 510	BILLINGS STEAM PLAN	3933	4168	4419	4684	4965	5263	5578	5913	6268	6644
3- 512	STEAM PLANT #1	5648	5987	6346	6726	7130	7558	8011	8492	9002	9542
3- 513	STEAM PLANT #2	1145	1213	1286	1363	1445	1532	1624	1721	1825	1934
3- 520	BILLINGS CITY SUB N	2526	2552	2578	2604	2630	2656	2683	2709	2736	2763
3- 530	BILLINGS CITY SUB N	4215	4332	4452	4574	4699	4826	4955	5087	5222	5359
3- 540	BILLINGS CITY SUB N	3617	3668	3719	3772	3825	3879	3933	3989	4045	4102
3- 550	BILLINGS CITY SUB N	4292	4619	4965	5331	5717	6125	6556	7011	7492	8001
3- 551	BILLINGS CITY SUB N	4838	4983	5132	5286	5445	5608	5776	5950	6128	6312
3- 580	BILLINGS EAST SIDE	8536	8972	9429	9910	10416	10947	11505	12092	12708	13357
3- 584	BILLINGS EAST SIDE	6552	6880	7223	7585	7964	8362	8780	9219	9680	10164
3- 585	BILLINGS EAST SIDE	5140	5398	5668	5951	6249	6561	6889	7234	7595	7975
3- 591	CONTINENTAL REFINER	10941	11466	12017	12593	13198	13831	14495	15191	15920	16685
3- 592	CONTINENTAL REFINER	10639	11150	11685	12246	12834	13450	14096	14772	15481	16224
3- 600	BILLINGS CONT. PIPE	1549	1711	1884	2070	2269	2482	2711	2956	3219	3501
3- 604	BILLINGS SEWAGE #1	1663	1746	1834	1925	2022	2123	2229	2340	2457	2580
3- 605	BILLINGS SEWAGE #2	1663	1746	1834	1925	2022	2123	2229	2340	2457	2580
3- 610	BILLINGS HUMBLE NO.	8691	9437	10231	11075	11974	12929	13946	15028	16178	17403

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
3- 620	BILLINGS HUMBLE NO.	7877	8080	8286	8495	8707	8923	9142	9365	9591	9821
3- 630	BILLINGS HUMBLE NO.	8900	9360	9845	10354	10889	11453	12045	12668	13324	14013
3- 640	BILLINGS SEMINOE	4326	4519	4721	4932	5152	5382	5622	5873	6135	6409
3- 650	HUNTLEY - YEL.VAL.	6281	6808	7380	8000	8672	9400	10190	11046	12000	12980
3- 660	BILLINGS BELLROCK 1	10598	10826	11059	11297	11540	11788	12042	12301	12566	12836
3- 670	BILLINGS BELLROCK 2	10793	10723	10652	10583	10513	10444	10376	10308	10241	10173
3- 680	BILLINGS 8TH WEST 1	15276	16482	17767	19137	20598	22155	23815	25584	27470	29480
3- 690	BILLINGS 8TH WEST 2	15948	17524	19256	21159	23250	25548	28074	30848	33897	37248
3- 691	BILLINGS 8TH WEST 3	17465	19487	21743	24261	27070	30204	33701	37603	41956	46814
3- 695	KING AVE.	NOT IN SERVICE IN 1976									
3- 700	ABSAROKEE	793	839	887	938	992	1049	1109	1173	1240	1312
3- 710	ABSAROKEE REA	1419	1507	1601	1700	1805	1917	2036	2162	2300	2439
3- 720	CHROME JUNCTION	15	15	15	15	15	15	15	15	15	15
3- 730	COLUMBUS	2730	2975	3242	3534	3851	4197	4574	4984	5432	5920
3- 740	COLUMBUS (B.T. REA)	1516	1605	1700	1800	1906	2019	2138	2264	2400	2539
3- 750	COLUMBUS-CATTLELD	147	156	167	178	189	202	215	229	244	260
3- 770	COLUMBUS-HOLMGREN	56	56	56	56	56	56	56	56	56	56
3- 780	COL.-PIERCE RANCH	118	124	130	136	142	149	156	163	171	179
3- 790	COL-PIERCE-GODDARD	105	105	105	105	105	105	105	105	105	105
3- 795	COLUMBUS PUMP	1218	1252	1288	1324	1361	1400	1439	1480	1522	1566
3- 800	LAUREL EAST BANK	5740	6093	6467	6864	7286	7733	8208	8712	9247	9815
3- 820	LAUREL N.P.	523	544	565	587	610	634	659	685	712	740

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
3- 825	LAUREL PUMP	823	828	833	837	842	847	852	857	862	867
3- 840	LAUREL-CENEX	7283	7428	7577	7729	7883	8041	8202	8366	8533	8704
3- 850	MOSSMAIN (Y.V. REA)	3227	3408	3598	3800	4012	4238	4475	4725	5000	5269
3- 851	P. V. SUB	438	438	438	438	438	438	438	438	438	438
3- 860	NYE (B.T. REA)	483	501	520	540	561	582	604	627	650	675
3- 861	BUFFALO JUMP	15	15	16	17	18	19	20	21	22	23
3- 862	DELGER	18	19	20	21	22	23	24	25	27	28
3- 870	PARK CITY	670	724	782	844	912	985	1064	1149	1242	1341
3- 880	PARK CITY - Y.V. RE	1650	1843	2059	2300	2561	2870	3205	3580	4000	4467
3- 890	REED POINT	344	368	393	420	449	480	513	548	585	625
3- 900	REED POINT - B.T. R	505	535	567	600	635	673	713	755	800	846
3- 910	REED POINT - FAW	108	114	121	128	136	144	153	162	172	182
3- 920	BEAR CREEK	89	91	93	94	96	98	100	102	104	106
3- 930	BRIDGER	834	862	891	920	951	982	1015	1049	1084	1120
3- 935	BRIDGER - CHANCE	2524	2681	2849	3026	3215	3416	3629	3855	4096	4351
3- 940	BRIDGER PUMP	693	682	671	660	649	638	628	617	606	596
3- 942	BRIDGER-NEWMONT	286	303	322	341	361	383	406	430	456	484
3- 950	DRY CREEK	242	262	283	308	334	364	396	433	473	517
3- 955	EAST ROSEBUD	75	76	78	79	81	83	84	86	88	90
3- 960	EAST ROSEBUD- BEART	4	5	7	10	14	19	26	36	50	69
3- 970	FROMBERG REA	911	999	1095	1200	1315	1441	1580	1732	1898	2080
3- 975	ROCKVALE	1504	1657	1829	2022	2240	2486	2762	3074	3425	3820

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
3- 980	FROMBERG	1439	1481	1525	1570	1616	1663	1712	1762	1813	1867
3-1010	RED LODGE	3364	3627	3911	4217	4547	4902	5286	5699	6145	6626
3-1015	LUTHER - B.T. REA	791	883	986	1100	1228	1370	1529	1706	1900	2125
3-1020	RED LODGE GRIZZLY P	544	595	651	712	779	853	933	1021	1117	1222
3-1030	RED LODGE - B.T. RE	1288	1385	1488	1600	1720	1849	1988	2137	2297	2469

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
4- 13	HARLOWTON DIST	2118	2150	2183	2217	2251	2286	2321	2356	2393	2429
4- 21	TWODOT	680	700	721	743	765	788	812	836	861	887
4- 40	UTICA	1208	1298	1395	1498	1610	1730	1858	1997	2145	2305
4- 120	HARLOWTON REA	835	887	942	1000	1062	1128	1198	1272	1350	1345
4- 130	WINNECOOK K-6	33	32	31	30	30	29	28	27	27	26
4- 131	BOULEVARD	6765	6887	7011	7137	7266	7396	7529	7665	7803	7943
4- 140	SHAWMUT	83	79	75	71	67	63	60	57	54	51
4- 150	SHAWMUT REA	16	17	18	20	22	24	25	28	30	32
4- 170	BARBER	164	167	171	175	179	184	189	195	201	207
4- 200	NIHILL	761	787	813	841	869	898	929	960	992	1026
4- 211	JUDITH GAP	383	390	397	403	410	417	425	432	439	447
4- 220	STRAW	762	777	792	808	824	841	858	875	892	910
4- 230	ROYSTON	42	42	43	44	45	46	47	48	49	50
4- 231	RUBY GULCH REA SUB	560	577	594	612	630	649	669	689	710	731
4- 240	MOORE	1095	1128	1162	1196	1232	1269	1307	1347	1387	1429
4- 260	GLENGARRY REA	1498	1563	1630	1700	1773	1849	1929	2012	2100	2189
4- 268	BERG SAWMILL	484	498	513	527	544	561	578	595	613	631
4- 270	LEWISTOWN NO.1	3405	3465	3526	3589	3653	3718	3785	3853	3923	3994
4- 280	HEATH REA	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
4- 290	HEATH U.S. GYPSUM	966	969	973	977	980	984	987	991	995	998
4- 340	LEWISTOWN RADAR	314	328	342	357	372	387	402	418	434	451
4- 350	HILGER REA	4596	4789	4990	5200	5418	5646	5883	6130	6400	6656

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
4- 410	LEWIS. NO. 3 PEAVEY	202	201	201	200	200	200	199	199	198	198
4- 420	HANOVER JCT	98	86	75	66	58	50	44	39	34	30
4- 430	ROSSFORK M-11	34	33	33	32	32	31	31	30	30	29
4- 440	KOLIN REA	448	465	482	500	519	538	558	578	600	622
4- 450	MOCCASIN	584	609	635	661	689	717	746	776	807	839
4- 460	WINDHAM	832	880	931	985	1043	1103	1167	1235	1306	1382
4- 501	STANFORD CITY	2472	2641	2823	3017	3224	3445	3681	3934	4204	4493
4- 510	DENTON	1843	1871	1900	1929	1958	1988	2018	2049	2081	2113
4- 530	SQ. BUTTE NO. 258	52	53	54	55	56	57	59	60	61	62
4- 540	GERALDINE	1287	1314	1340	1368	1396	1424	1453	1483	1513	1544
4- 550	MERINO B-1	47	47	46	46	46	45	45	45	45	44
4- 560	GEYSER	92	93	94	95	96	96	97	98	99	100
4- 990	FERGUS REA (GEYSER)	874	914	956	1000	1046	1094	1144	1197	1250	1310

ESTIMATED PEAK SUBSTATION LOAD IN KILOWATTS 1977 - 1987

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
6- 130	MAD STORAGE	428	430	433	435	438	440	443	445	448	450
6- 143	KYD PUMP	2496	2596	2700	2808	2920	3037	3158	3285	3416	3553
6- 150	IDEAL CEMENT	6980	7164	7352	7546	7744	7948	8157	8371	8591	8817
6- 151	THREE FORKS SUB	2456	2684	2933	3206	3504	3829	4185	4574	4999	5463
6- 152	THREE FORKS NO. 2	2107	2159	2212	2266	2322	2380	2439	2499	2561	2624
6- 170	HARRISON-PONY	1412	1511	1617	1730	1851	1981	2120	2268	2427	2597
6- 180	ENNIS	2388	2643	2936	3273	3660	4107	4620	5212	5892	6675
6- 190	MADISON VALLEY	717	732	748	763	780	796	813	830	848	866
6- 200	LOGAN	123	126	129	132	135	139	142	145	149	152
6- 213	MANHATTAN	2414	2608	2816	3042	3285	3548	3841	4138	4469	4826
6- 220	BELGRADE	5676	5898	6129	6368	6618	6876	7145	7425	7715	8017
6- 222	MOUNTAIN VILLAGE	10000	10900	11950	13000	14500	15200	16800	18500	20000	21620
6- 241	BOZ NORTHSIDE	6064	6081	6097	6114	6130	6147	6163	6180	6197	6214
6- 243	MEADOW VILLAGE	5360	5700	6200	6800	7500	8100	8800	9600	10200	10812
6- 250	BOZ SOUTHSIDE NO 3	5168	5479	5807	6156	6525	6917	7332	7772	8238	8732
6- 251	BOZ SOUTHSIDE NO 1	5597	5903	6221	6551	6893	7248	7616	7999	8396	8808
6- 252	BOZ SOUTHSIDE NO 2	5123	5368	5621	5883	6155	6436	6728	7029	7341	7665
6- 300	CHERRY CREEK	74	78	81	84	88	91	95	99	103	108
6- 311	BOZ HOT SPRINGS	3087	3291	3509	3742	3989	4253	4535	4835	5156	5497
6- 320	BOZ SOURDOUGH	4350	4487	4627	4770	4918	5069	5224	5383	5546	5713
6- 321	EAST GALLATIN	6135	6555	7002	7481	7992	8537	9121	9744	10409	11120
6- 330	MOUNT ELLIS W/BR	660	695	735	776	820	866	914	965	1019	1076

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
6- 340	MUIR	439	481	527	577	632	693	759	831	911	998
6- 350	CLYDE PARK REA	945	963	981	1000	1019	1038	1058	1078	1100	1120
6- 361	LIVINGSTON CITY	5057	5039	5020	5002	4983	4965	4946	4928	4910	4892
6- 362	LIVINGSTON N. SIDE	4000	4120	4243	4370	4502	4637	4776	4919	5067	5219
6- 363	DOWNER SUB	136	135	134	133	132	131	130	129	128	127
6- 364	PINE CREEK REA	641	743	862	1000	1160	1346	1560	1811	2100	2436
6- 380	MANHATTAN PUMP	1443	1544	1652	1767	1891	2023	2165	2316	2479	2652
6- 390	LIVINGSTON REA	1330	1410	1495	1584	1680	1780	1787	1894	2007	2128
6- 410	CHICO REA	1095	1129	1164	1200	1237	1276	1315	1356	1400	1441
6- 420	CHICO	30	30	30	30	30	30	30	30	30	30
6- 450	BROGAN	340	354	369	384	401	418	437	456	477	499
6- 470	GARDINER	1433	1509	1590	1674	1764	1858	1957	2061	2171	2287
6- 500	MAMMOTH	998	1021	1045	1070	1095	1120	1146	1173	1201	1229
6- 510	NORRIS JUNCTION	40	41	42	43	44	46	47	48	49	51
6- 520	CANYON	1153	1270	1399	1541	1697	1869	2059	2267	2497	2751
6- 530	LAKE FISHING BRIDGE	1742	1917	2108	2319	2551	2806	3087	3395	3735	4108
6- 540	WEST THUMB	535	576	621	669	720	776	836	901	971	1046
6- 550	MADISON JUNCTION	68	67	66	65	64	63	62	61	61	60
6- 560	OLD FAITHFUL	2026	2231	2457	2706	2980	3282	3615	3981	4384	4829
6- 601	BURKLAND LUMBER	598	603	608	613	618	623	628	633	638	643
6- 602	PARK LUMBER	613	615	618	620	623	625	628	630	633	635
6- 610	EBERT - WINDSOR	193	200	208	215	223	232	240	249	258	267

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
6- 620	HUNTERS HOT SPRINGS	187	192	198	204	211	217	224	231	238	245
6- 630	SPRINGDALE PUMP	1954	1997	2041	2086	2132	2179	2227	2276	2326	2377
6- 631	SPRINGDALE REA	286	320	358	400	447	500	559	625	700	781
6- 640	MCLEOD REA	408	437	467	500	535	572	613	655	700	750
6- 650	BIG TIMBER	2081	2178	2281	2388	2500	2617	2740	2869	3003	3144
6- 660	MELVILLE	711	771	836	906	982	1064	1153	1250	1355	1468
6- 670	GREY CLIFF	270	277	284	292	299	307	315	324	332	341
6- 690	BIG TIMBER REA	854	900	949	1000	1054	1111	1171	1234	1300	1371
6- 700	FRAZIER PUMP	52	54	56	58	61	63	66	68	71	74
6- 710	GREEN RANCH	156	158	160	161	163	164	166	168	169	171

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
7- 20	BASIN	488	488	489	490	490	491	492	493	493	494
7- 70	CANYON CREEK	3229	3275	3322	3371	3420	3471	3523	3576	3631	3686
7- 80	GILBERT	1019	1098	1183	1275	1374	1481	1596	1720	1853	1997
7- 90	WOLF CREEK	831	871	913	958	1004	1053	1104	1158	1214	1273
7- 101	TOWNSEND	7102	7388	7690	8009	8346	8702	9077	9474	9893	10335
7- 111	TOSTON	1910	2063	2228	2407	2599	2807	3032	3274	3536	3819
7- 120	CROW CREEK W/BR	1985	1985	1985	1985	1985	1985	1985	1985	1985	1985
7- 130	LOWETH NO.1	3518	3706	3904	4113	4334	4566	4810	5067	5339	5624
7- 200	BOULDER	2194	2345	2507	2680	2865	3063	3274	3500	3742	4000
7- 202	BRAND S SAWMILL	116	121	126	131	136	142	147	153	159	166
7- 220	KAISER CEMENT	5381	5392	5403	5414	5425	5435	5446	5457	5468	5479
7- 241	E. HELENA BK A ASOR	3502	3554	3608	3662	3717	3772	3829	3886	3945	4004
7- 242	E. HELENA BK B ASOR	3654	3709	3764	3821	3878	3936	3995	4055	4116	4178
7- 260	ALHAMBRA	1497	1707	1946	2218	2529	2883	3286	3746	4271	4867
7- 301	EAST HELENA TOWN &	11212	11929	12708	13556	14477	15479	16569	17753	19041	20441
7- 303	NAT CYLINDER GAS	1339	1345	1350	1356	1362	1368	1373	1379	1385	1391
7- 320	YELLOWSTONE PIPE	2080	2083	2086	2089	2092	2095	2098	2101	2104	2107
7- 321	HELENA EAST SIDE 1	6411	6811	7237	7689	8170	8680	9223	9799	10412	11062
7- 322	HELENA EAST SIDE 2	5292	5557	5834	6126	6432	6754	7092	7446	7819	8210
7- 331	HELENA FRONT STREET	6153	6338	6528	6724	6926	7133	7347	7568	7795	8029
7- 332	HELENA FRONT STREET	5092	5245	5402	5565	5731	5903	6080	6263	6451	6644
7- 351	HELENA WEST SIDE 1	4728	4822	4919	5017	5117	5220	5324	5431	5539	5650

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
7- 352	HELENA WEST SIDE 2	7905	8461	9053	9682	10350	11059	11814	12615	13466	14371
7- 353	HELENA WEST SIDE	2442	2589	2744	2909	3083	3268	3464	3672	3893	4126

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
9- 71	MISSOULA #1 3.3 KV	5738	5400	5082	4783	4502	4237	3988	3753	3532	3324
9- 72	MISSOULA #1 12.5 KV	9396	9603	9814	10033	10250	10476	10707	10942	11183	11429
9- 76	BONNER TOTAL	16194	17003	17853	18746	19683	20667	21701	22786	23925	25121
9- 100	FRENCHTOWN W/BPA	3900	4500	5000	5500	6000	6500	7000	7600	8200	8000
9- 107	HOERNER-WALDORF BAN	9966	10704	11496	12346	13260	14241	15295	16427	17642	13948
9- 108	HOERNER-WALDORF BAN	9855	10584	11368	12209	13113	14083	15125	16244	17446	18738
9- 109	HOERNER-WALDORF BAN	9855	10584	11368	12209	13113	14083	15125	16244	17446	18738
9- 120	ALBERTON	1248	1317	1391	1470	1555	1646	1744	1849	1961	2082
9- 140	DIAMOND MATCH	3330	3478	3633	3794	3963	4139	4323	4516	4716	4926
9- 150	SUPERIOR	2231	2301	2373	2447	2524	2603	2684	2768	2855	2944
9- 160	ST. REGIS	853	875	898	922	946	971	997	1023	1050	1078
9- 180	HAUGEN	231	240	249	259	270	281	292	304	316	328
9- 181	HUSEN REA	2000	2100	2300	2400	2500	2700	2800	3000	3100	3300
9- 190	SALTESE	244	255	267	281	295	310	327	345	364	385
9- 219	MISSOULA #1 BK 4	9984	10383	10799	11231	11680	12147	12633	13138	13663	14210
9- 220	MISSOULA #2 BANK 3	8735	8914	9092	9274	9460	9649	9842	10039	10240	10444
9- 221	MISSOULA #2 BANK 1	13789	13988	14189	14394	14602	14812	15026	15242	15462	15685
9- 222	MISSOULA #2 BANK 2	11572	12315	13090	13897	14738	15615	16529	17482	18475	19510
9- 231	MISSOULA #3 BANK 1	10189	10244	10299	10355	10411	10467	10523	10581	10638	10695
9- 232	MISSOULA #3 BANK 2	19021	19527	20050	20591	21150	21728	22325	22943	23581	24241
9- 250	PLAINS	5007	5246	5496	5758	6032	6320	6621	6937	7267	7614
9- 272	THOMPSON FALLS YPL	1497	1505	1513	1522	1530	1539	1547	1556	1564	1573

INST. NO.	SUBSTATION	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
9- 510	THOMPSON FALLS LUMB	1091	1114	1137	1160	1184	1209	1234	1259	1285	1312
9- 520	THOMPSON FALLS RURA	60	60	60	60	60	60	60	60	60	60
9- 570	LOLO	6401	7101	7879	8741	9698	10760	11938	13245	14695	16303
9- 580	FLORENCE	1020	1161	1320	1502	1709	1944	2212	2517	2863	3257
9- 590	STEVENSVILLE	2941	3172	3420	3688	3976	4288	4624	4986	5376	5797
9- 610	STEVENSVILLE W/BPA	2400	2600	2900	3100	3300	3600	3900	4300	4600	4900
9- 620	VICTOR	709	706	704	702	699	697	695	692	690	688
9- 639	GRANTSDALE W/BPA	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
9- 640	HAMILTON CITY	3524	3637	3753	3871	3993	4118	4246	4377	4511	4649
9- 641	HAMILTON RURAL	4273	4740	5258	5832	6469	7176	7960	8829	9794	10863
9- 650	CORVALLIS	1633	1719	1810	1906	2007	2113	2225	2342	2466	2597
9- 660	DARBY	8063	8305	8554	8810	9075	9347	9627	9916	10214	10520
9- 681	THOMPSON FALLS CITY	2814	2919	3029	3142	3260	3382	3509	3641	3777	3919
9- 682	THOMPSON FALLS REA	1500	1600	1700	1900	2000	2100	2200	2300	2400	2500
9- 700	FLODIN LUMBER	1142	1188	1235	1285	1336	1389	1445	1503	1563	1625
9- 710	RAVENNA W/BPA	640	640	640	640	640	770	770	770	900	900
9- 720	TARKIO REA	600	700	700	800	800	900	900	1000	1000	1100
9- 730	CORVALLIS W/BPA	4600	5100	5500	6100	6600	7000	7600	8200	8800	9400

00C.3:M25/977 F613

DUO-TANG
5125B®
MADE IN U.S.A.